EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1808	536/22.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 21:06
L2	1621	536/25.3.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 21:06
L3	325	536/25.31.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 21:06
L4	346	536/26.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 21:06
L5	286	536/27.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 21:06
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EAST Search History

L8	45	7 and 2'-protect$	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 21:07
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S3	11443481	s S1 and vicinal	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/29 17:08
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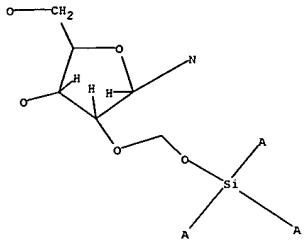

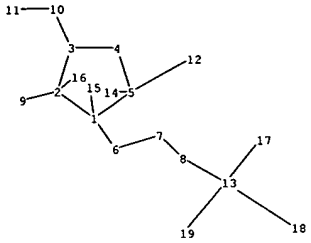

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ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
1-2 1-5 1-6 2-3 2-9 3-4 4-5 5-12 6-7 7-8 13-17 13-18 13-19
exact bonds :
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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:Atom 13:CLASS
14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS 19:CLASS

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Connecting via Winsock to STN



Welcome to STN International!  Enter x:x

LOGINID:sssptal600txm

PASSWORD:
 * * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 18:11:01 ON 29 MAR 2007
FILE 'CAPLUS' ENTERED AT 18:11:01 ON 29 MAR 2007
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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                      41.10     315.42

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00     -14.82

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     (FILE 'HOME' ENTERED AT 17:24:56 ON 29 MAR 2007)

     FILE 'REGISTRY' ENTERED AT 17:25:22 ON 29 MAR 2007
L1             STRUCTURE UPLOADED
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L3             136 S L1 SSS FULL

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L15             26 S L14 AND RIBONUCLEOSIDE
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L17              1 S L15 AND PHOSPHORIC
L18             37 S L14 AND PHOSPHORIC
L19              1 S L18 AND SUBSTITUENT
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10/534,160

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

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* * * * * * * * * * Welcome to STN International * * * * * * * * * *

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 NEWS  1          Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2          "Ask CAS" for self-help around the clock
 NEWS  3  DEC 18  CA/CAplus pre-1967 chemical substance index entries enhanced
                  with preparation role
 NEWS  4  DEC 18  CA/CAplus patent kind codes updated
 NEWS  5  DEC 18  MARPAT to CA/CAplus accession number crossover limit increased
                  to 50,000
 NEWS  6  DEC 18  MEDLINE updated in preparation for 2007 reload
 NEWS  7  DEC 27  CA/CAplus enhanced with more pre-1907 records
 NEWS  8  JAN 08  CHEMLIST enhanced with New Zealand Inventory of Chemicals
 NEWS  9  JAN 16  CA/CAplus Company Name Thesaurus enhanced and reloaded
 NEWS 10  JAN 16  IPC version 2007.01 thesaurus available on STN
 NEWS 11  JAN 16  WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
 NEWS 12  JAN 22  CA/CAplus updated with revised CAS roles
 NEWS 13  JAN 22  CA/CAplus enhanced with patent applications from India
 NEWS 14  JAN 29  PHAR reloaded with new search and display fields
 NEWS 15  JAN 29  CAS Registry Number crossover limit increased to 300,000 in
                  multiple databases
 NEWS 16  FEB 15  PATDPASPC enhanced with Drug Approval numbers
 NEWS 17  FEB 15  RUSSIAPAT enhanced with pre-1994 records
 NEWS 18  FEB 23  KOREAPAT enhanced with IPC 8 features and functionality
 NEWS 19  FEB 26  MEDLINE reloaded with enhancements
 NEWS 20  FEB 26  EMBASE enhanced with Clinical Trial Number field
 NEWS 21  FEB 26  TOXCENTER enhanced with reloaded MEDLINE
 NEWS 22  FEB 26  IFICDB/IFIPAT/IFIUDB reloaded with enhancements
 NEWS 23  FEB 26  CAS Registry Number crossover limit increased from 10,000
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 NEWS 24  MAR 15  WPIDS/WPIX enhanced with new FRAGHITSTR display format
 NEWS 25  MAR 16  CASREACT coverage extended
 NEWS 26  MAR 20  MARPAT now updated daily
 NEWS 27  MAR 22  LWPI reloaded

 NEWS EXPRESS  NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.

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FILE 'HOME' ENTERED AT 17:24:56 ON 29 MAR 2007

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COST IN U.S. DOLLARS                        SINCE FILE      TOTAL
                                               ENTRY    SESSION
FULL ESTIMATED COST                             0.21       0.21
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10/534,160

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DICTIONARY FILE UPDATES:  28 MAR 2007  HIGHEST RN 928615-67-2

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L1      STRUCTURE UPLOADED

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SAMPLE SEARCH INITIATED 17:25:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -       45 TO ITERATE

100.0% PROCESSED       45 ITERATIONS                              10 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           498 TO     1302
PROJECTED ANSWERS:               11 TO      389

L2           10 SEA SSS SAM L1

=> s l1 sss full
FULL SEARCH INITIATED 17:25:49 FILE 'REGISTRY'
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100.0% PROCESSED     1125 ITERATIONS                            136 ANSWERS
SEARCH TIME: 00.00.01

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=> file caplus
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                                                   ENTRY    SESSION
FULL ESTIMATED COST                                172.10     172.31

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=> s l3
L4 19 L3

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L4 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:1036493 CAPLUS
DN 145:390381
TI Short interfering RNA with modified overhangs
IN Andreou, Ioanna; Pitsch, Stefan; Muller, Evelyne; Reymond, Luc
PA Qiagen GmbH, Germany
SO PCT Int. Appl., 170pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2006102970	A2	20061005	WO 2006-EP2131	20060308

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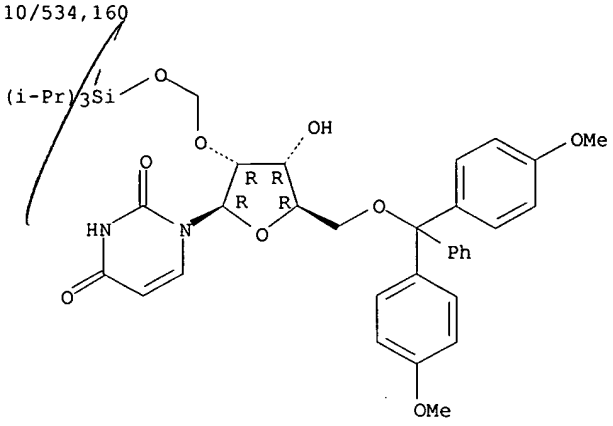
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRAI EP 2005-5027 A 20050308
OS MARPAT 145:390381
AB The present invention refers to a double-stranded siRNA mol. comprising a sense strand and an antisense strand which is essentially complementary to the sense strand, each of the sense and the antisense strands comprising at least 17 nucleotides (nt), the siRNA further comprising at least one overhang at the 5' and/or 3' end, wherein the overhang residue or overhang residues are chemical modified and selected independently from each other from the group consisting of: (a) 2'-deoxy modified nucleotides; (b) 2'-methoxy modified nucleotides; (c) two nucleosides linked by a 3' to 5' or 2' to 5' formacetal linkage; (d) nucleotides modified at the 2'-position by a -CH2-O-(CH2)2-OH group; and (e) nucleotides comprising in the 3'-position a -CH2-O-(CH2)7-CH3 group.
IT 220230-58-0 253586-21-9 253586-22-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(short interfering RNA with modified overhangs)
RN 220230-58-0 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



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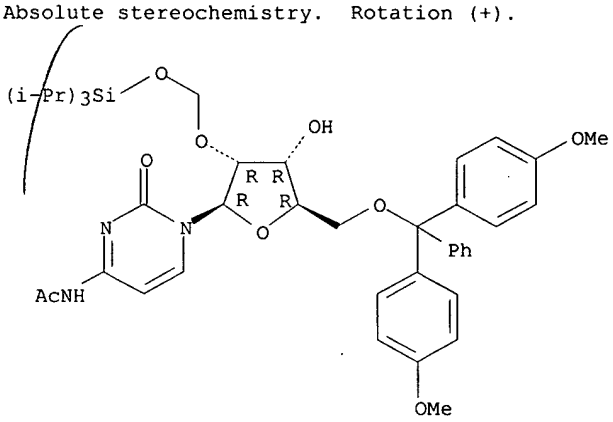
Absolute stereochemistry. Rotation (+).



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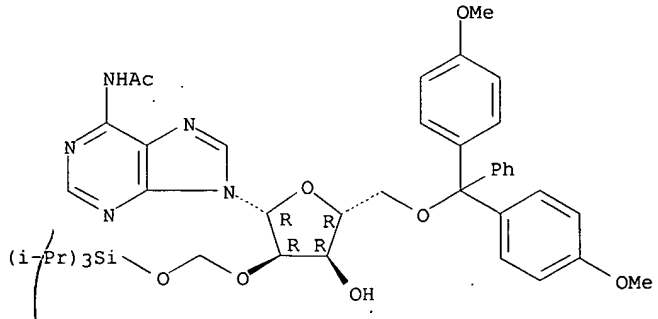
Absolute stereochemistry. Rotation (+).



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910792-31-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(short interfering RNA with modified overhangs)
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CN Uridine, 5'-O-[(methylthio)methyl]-2'-O-[[[tris(1-

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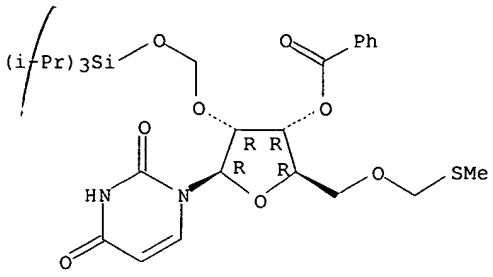
Absolute stereochemistry.



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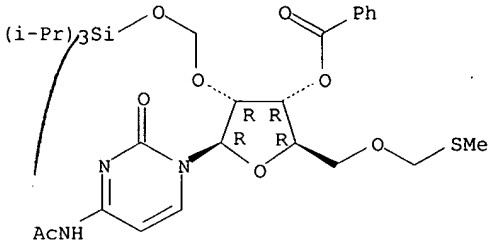
Absolute stereochemistry.



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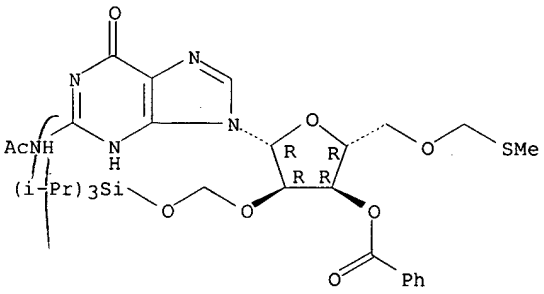
Absolute stereochemistry.



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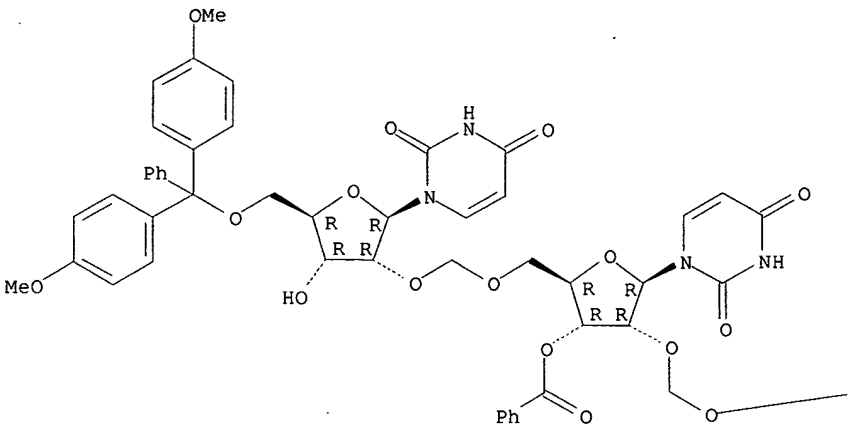
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—Si(Pr-i)3

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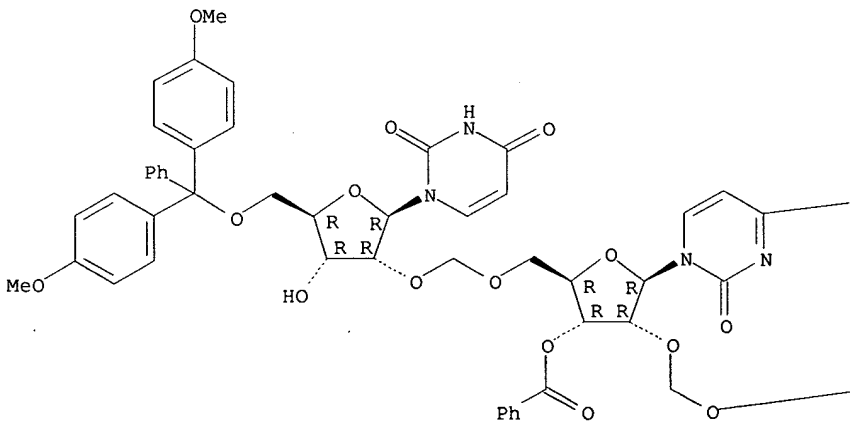
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—NHAc

—Si(Pr-i)3

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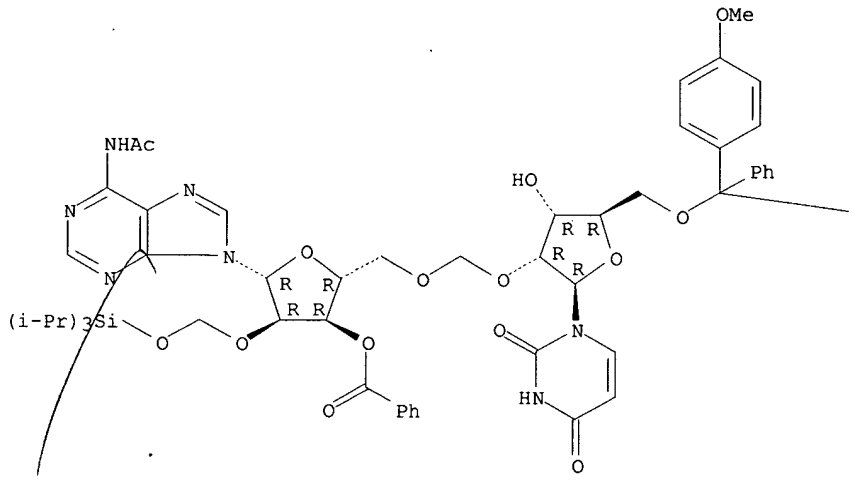
Absolute stereochemistry.

PAGE 1-A



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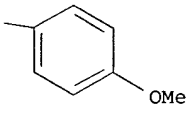

RN 910792-19-7 CAPLUS

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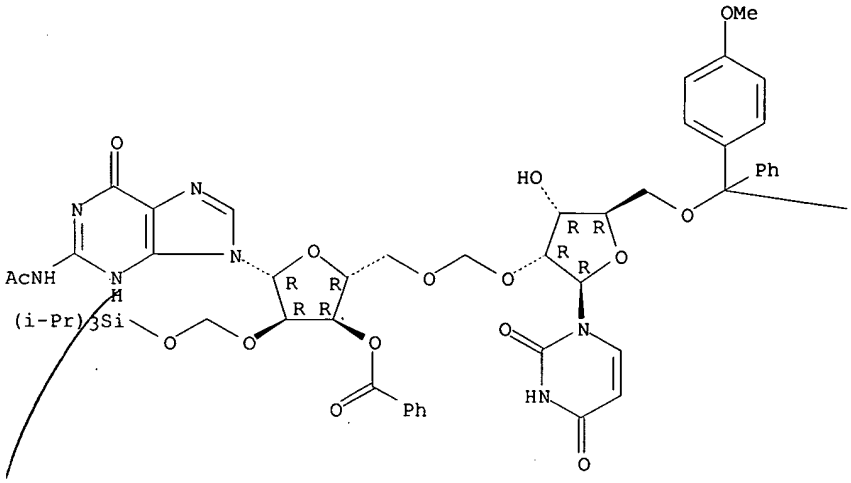
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-dephosphinicouridylylmethylene-(2'→5')-N-acetyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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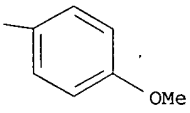

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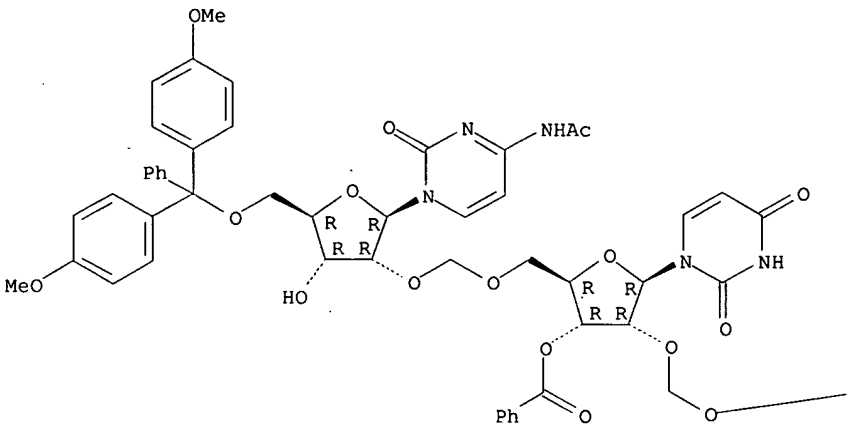
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—Si(Pr-i)3

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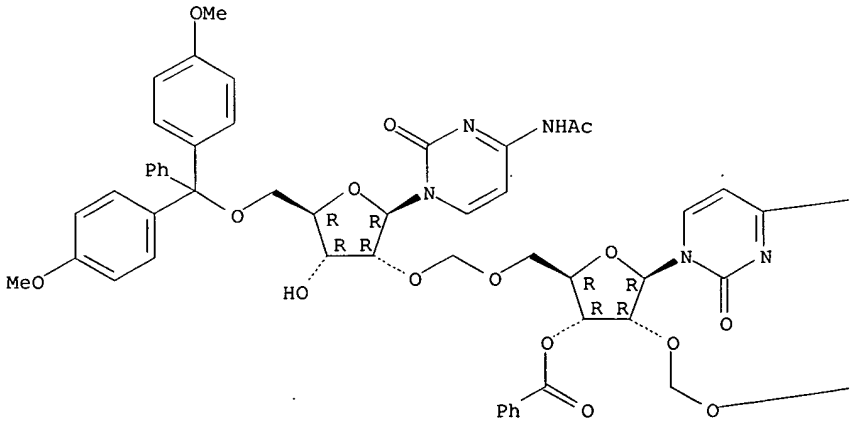
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

—NHAc

—Si(Pr-i)3

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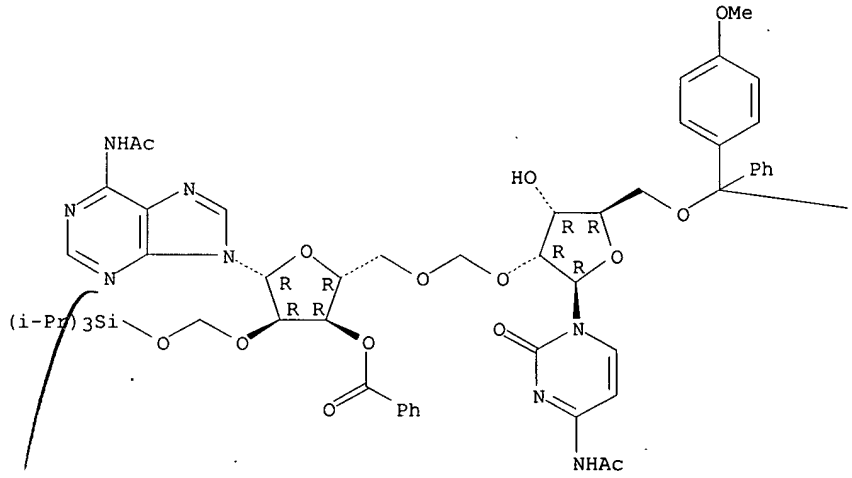
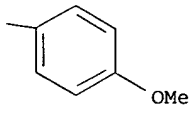
CN Adenosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-dephosphinicocytidylylmethylene-(2'→5')-N-acetyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



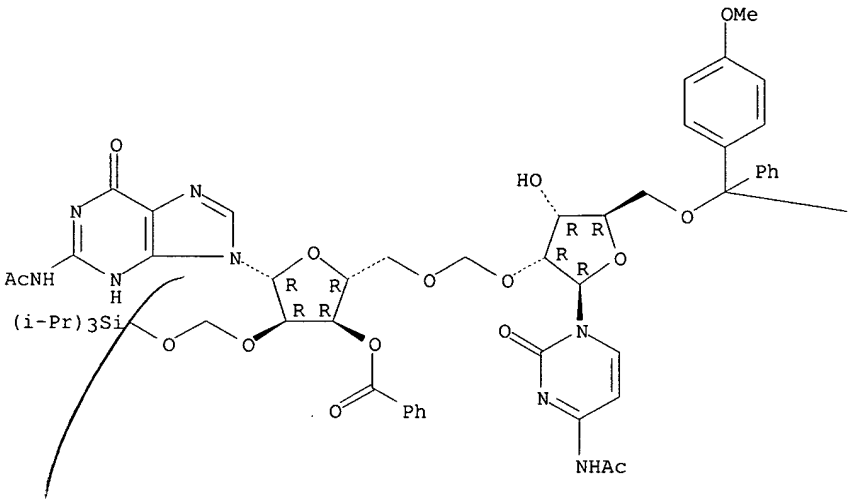
RN 910792-23-3 CAPLUS

McIntosh

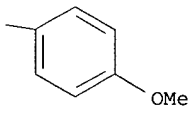
CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-dephosphinicocytidylylmethylene-(2'→5')-N-acetyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

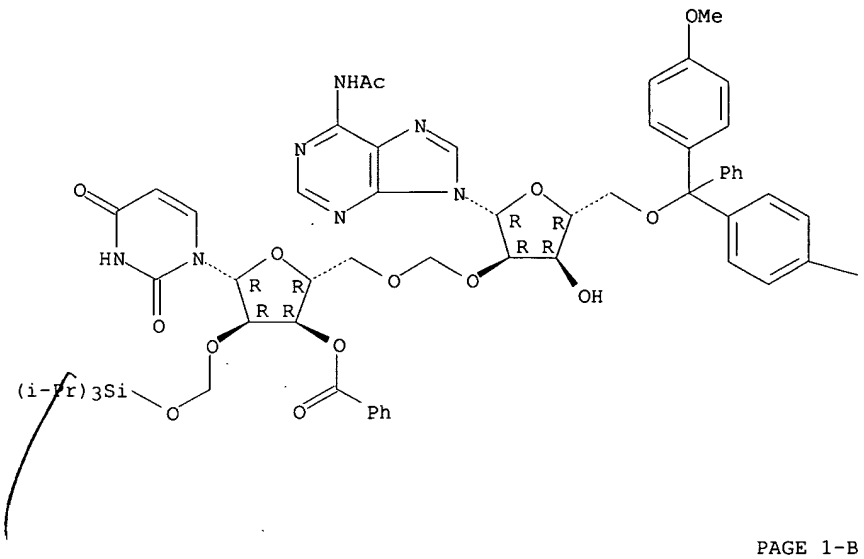


RN 910792-24-4 CAPLUS

CN Uridine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-dephosphinicoadenylylmethylene-(2'→5')-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



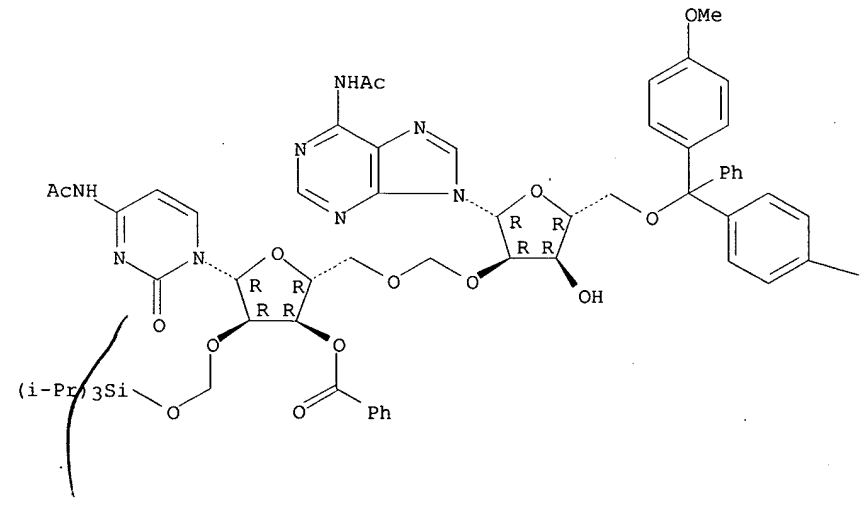
PAGE 1-B

OMe

RN 910792-25-5 CAPLUS
CN Cytidine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-dephosphinicoadenylylmethylene-(2'→5')-N-acetyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



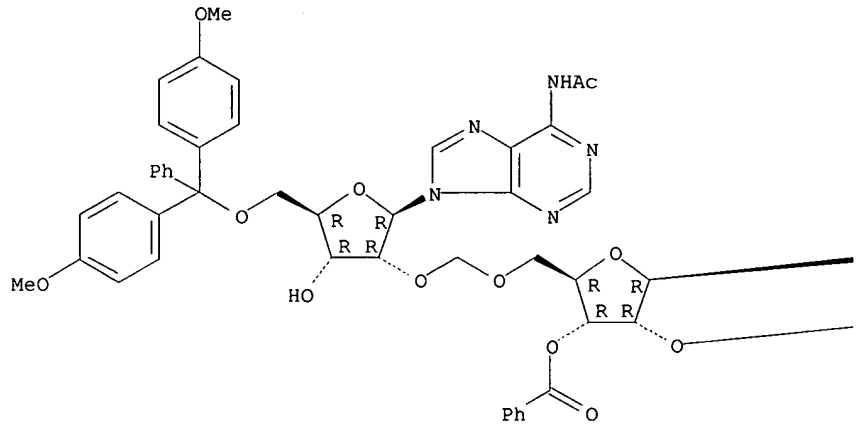
PAGE 1-B

—OMe

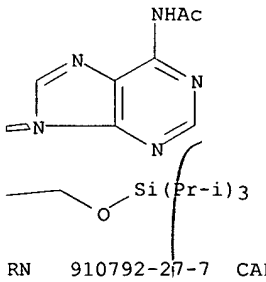
RN 910792-26-6 CAPLUS
CN Adenosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-dephosphinicoadenylylmethylene-(2'→5')-N-acetyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



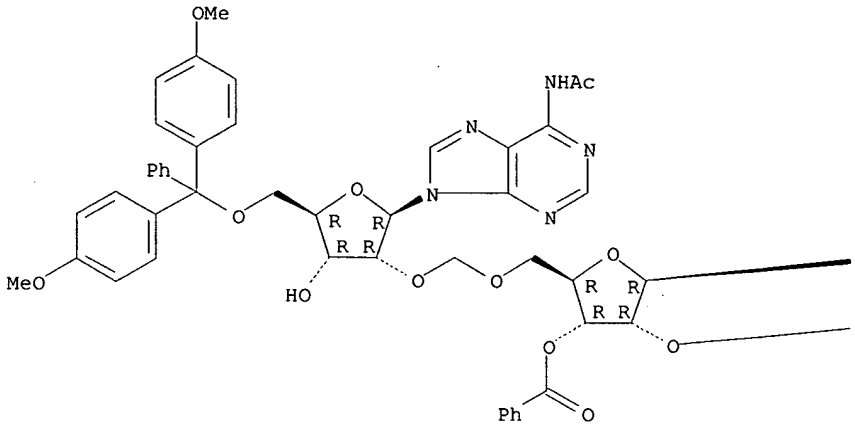
PAGE 1-B



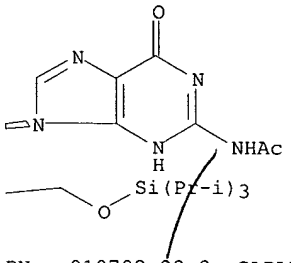
RN 910792-27-7 CAPLUS
CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-dephosphinicoadenylylmethylene-(2'→5')-N-acetyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



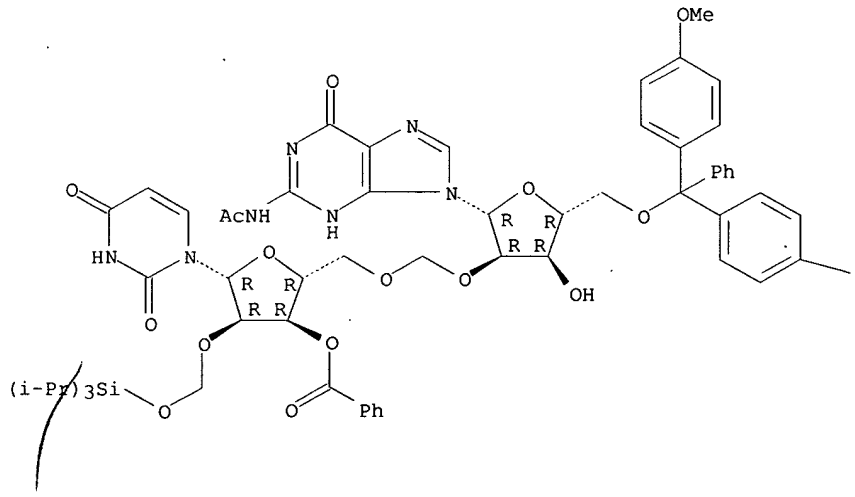
PAGE 1-B



RN 910792-28-8 CAPLUS
CN Uridine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-dephosphinicoguanylylmethylene-(2'→5')-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



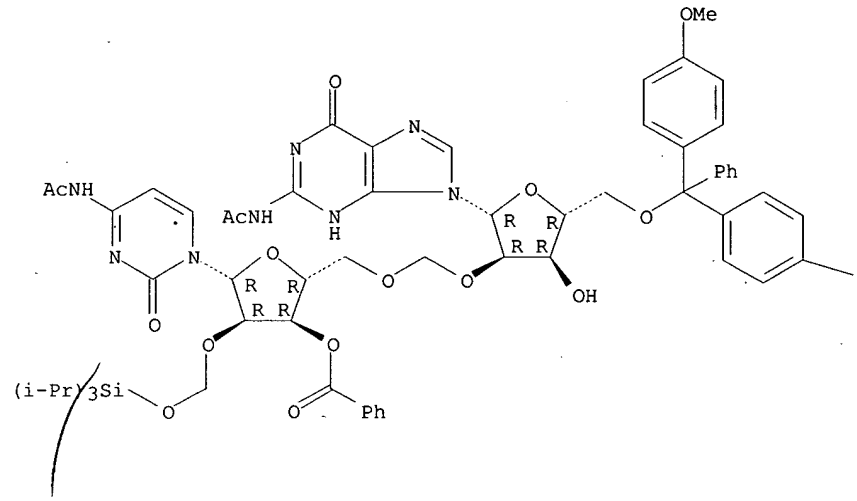
PAGE 1-B

OMe

RN 910792-29-9 CAPLUS
CN Cytidine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-dephosphinicoguanylylmethylene-(2'→5')-N-acetyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



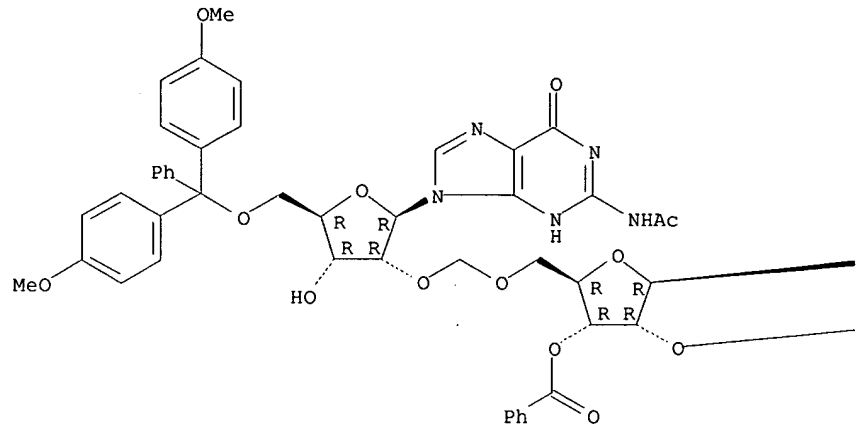
PAGE 1-B

OMe

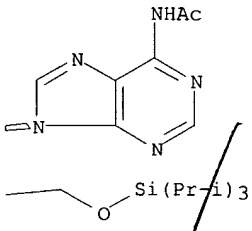
RN 910792-30-2 CAPLUS
CN Adenosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-dephosphinicoguanylylmethylene-(2'→5')-N-acetyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



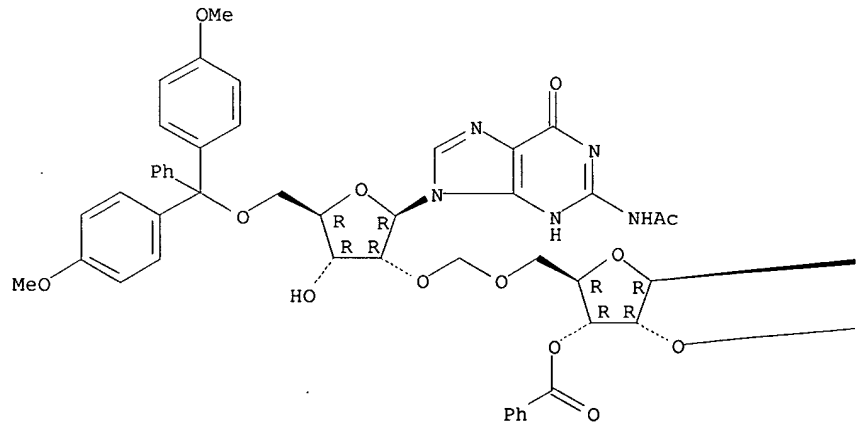
PAGE 1-B

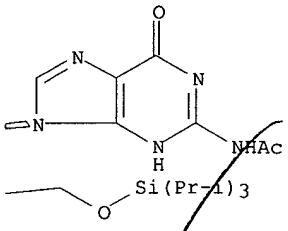


RN 910792-31-3 CAPLUS
CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-dephosphinicoguanylylmethylene-(2'→5')-N-acetyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-benzoate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

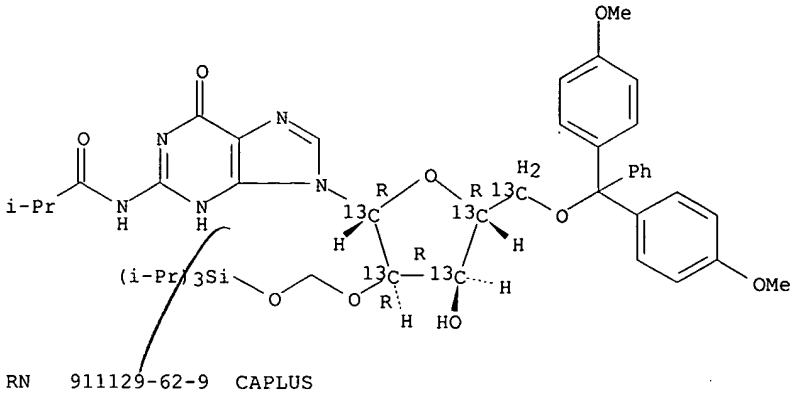
PAGE 1-A





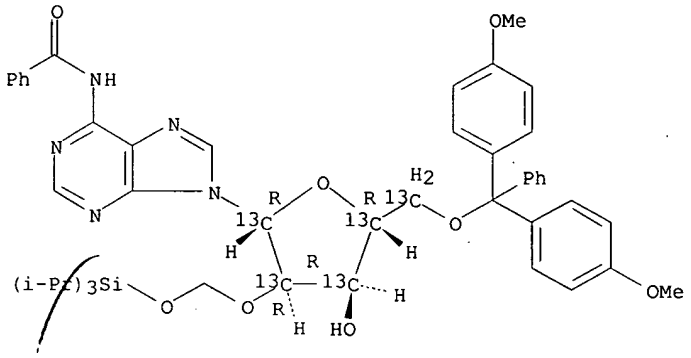
L4 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:827215 CAPLUS
DN 145:372108
TI Short, synthetic and selectively 13C-labeled RNA sequences for the NMR structure determination of protein-RNA complexes
AU Wenter, Philipp; Reymond, Luc; Auweter, Sigrid D.; Allain, Frederic H.-T.; Pitsch, Stefan
CS Institut des Science et Ingenierie Chimiques, EPFL-BCH, Ecole Polytechnique Federale de Lausanne, Lausanne, 1015, Switz.
SO Nucleic Acids Research (2006), 34(11), e79/1-e79/8
CODEN: NARHAD; ISSN: 0305-1048
PB Oxford University Press
DT Journal
LA English
AB The authors report an optimized synthesis of all canonical 2'-O-TOM protected ribonucleoside phosphoramidites and solid supports containing [13C5]-labeled ribose moieties, their sequence-specific introduction into very short RNA sequences and their use for the structure determination of two protein-RNA complexes. These specifically labeled sequences facilitate RNA resonance assignments and are essential to assign a high number of sugar-sugar and intermol. NOEs, which ultimately improve the precision and accuracy of the resulting structures. This labeling strategy is particularly useful for the study of protein-RNA complexes with single-stranded RNA in solution, which is rapidly an increasingly relevant research area in biol.
IT 911129-60-7P 911129-62-9P 911129-64-1P
911129-66-3P 911129-68-5P 911129-70-9P
911129-72-1P 911129-74-3P 911129-76-5P
911129-83-4DP, immobilized
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(short, synthetic and selectively 13C-labeled RNA sequences for NMR structure determination of protein-RNA complexes)
RN 911129-60-7 CAPLUS
CN Guanosine-1',2',3',4',5'-13C5, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



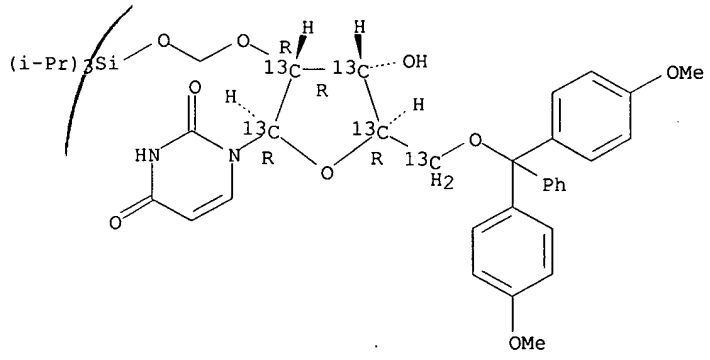
RN 911129-62-9 CAPLUS
CN Adenosine-1',2',3',4',5'-13C5, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



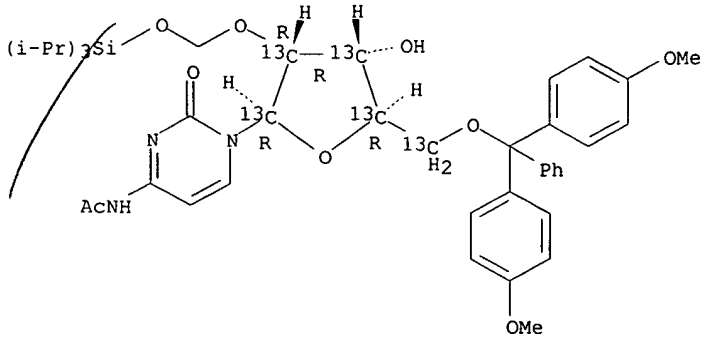
RN 911129-64-1 CAPLUS
CN Uridine-1',2',3',4',5'-13C5, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



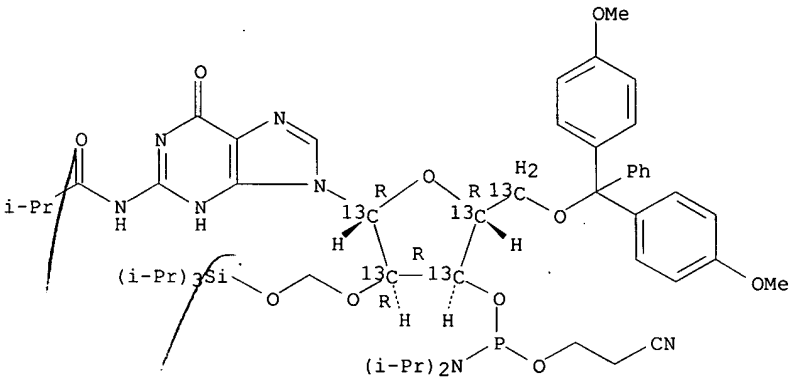
RN 911129-66-3 CAPLUS
CN Cytidine-1',2',3',4',5'-13C5, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



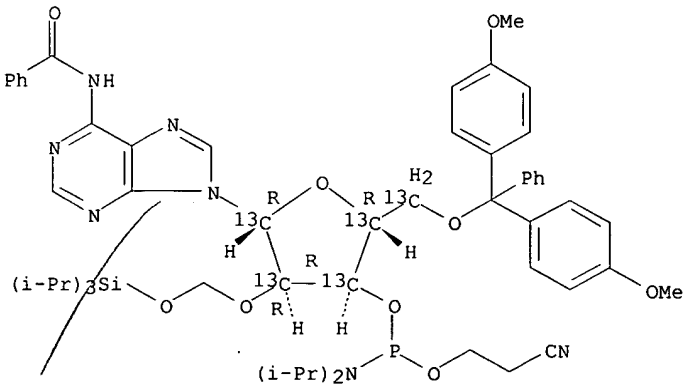
RN 911129-68-5 CAPLUS
CN Guanosine-1',2',3',4',5'-13C5, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



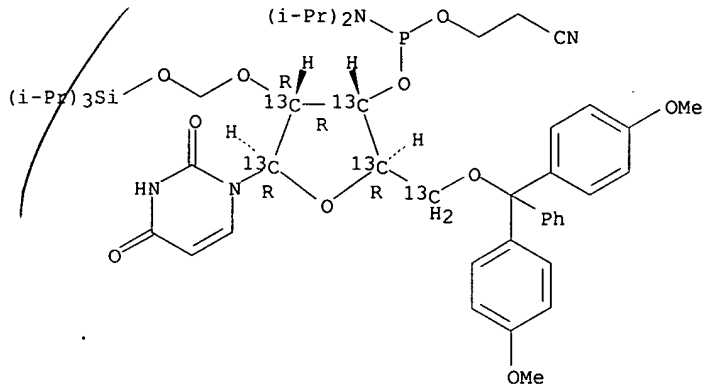
RN 911129-70-9 CAPLUS
CN Adenosine-1',2',3',4',5'-13C5, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



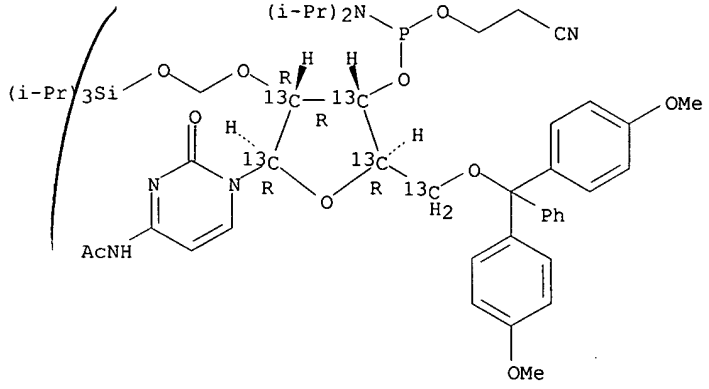
RN 911129-72-1 CAPLUS
CN Uridine-1',2',3',4',5'-13C5, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



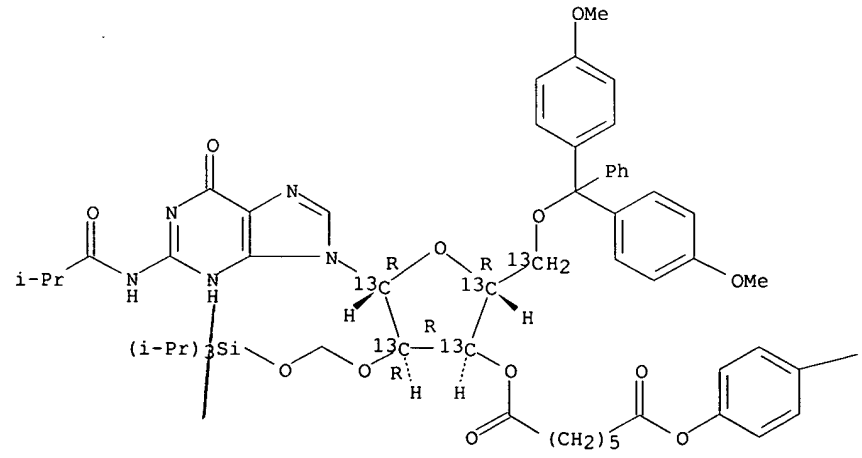
RN 911129-74-3 CAPLUS
CN Cytidine-1',2',3',4',5'-13C5, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 911129-76-5 CAPLUS
CN Guanosine-1',2',3',4',5'-13C5, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-(4-nitrophenyl heptanedioate) (9CI) (CA INDEX NAME)

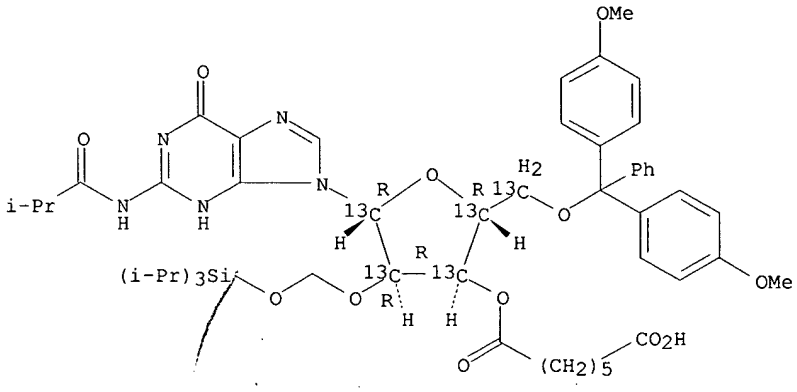
Absolute stereochemistry.



—NO_2

RN 911129-83-4 CAPLUS
CN Guanosine-1',2',3',4',5'-13C5, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-(hydrogen heptanedioate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

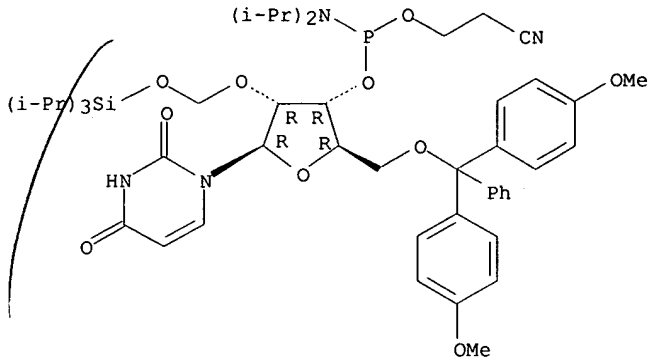
L4 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:1328282 CAPLUS
DN 144:412749
TI Preparation of modified RNA sequences for biological research
AU Pitsch, Stefan; Ackermann, Damian; Denarie, Cyrille; Meylan, Frederic; Meyyappan, Muthulaniappan; Muller, Evelyne; Peer, Andreas; Porcher, Sebastien; Reymond, Luc; Stutz, Alfred; Wenter, Phillipp; Wu, Xiaolin
CS Lab. Nucleic Acid Chem., Ecole Polytechn. Fed. Lausanne EPFL-BCH, Lausanne, CH-1015, Switz.
SO Chimia (2005), 59(11), 808-811
CODEN: CHIMAD; ISSN: 0009-4293
PB Swiss Chemical Society
DT Journal; General Review
LA English
AB A review. The group is working on the development of reliable access to biol. relevant, long, and modified RNA sequences. Here, the authors briefly present the chemical synthesis of such sequences with 2'-O-triisopropylsilyloxymethyl (= 2'-O-tom) protected ribonucleoside phosphoramidites, their template-directed enzymic ligation, and some examples of modified nucleotides, designed to promote structural and biol. studies.
IT 220230-62-6 253586-12-8 253586-13-9
253586-14-0
RL: BSU (Biological study, unclassified); BIOL (Biological study)

(synthesis of RNA sequences using 2'-O-triisopropylsilyloxymethyl protected ribonucleoside phosphoramidites)

RN 220230-62-6 CAPLUS

CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

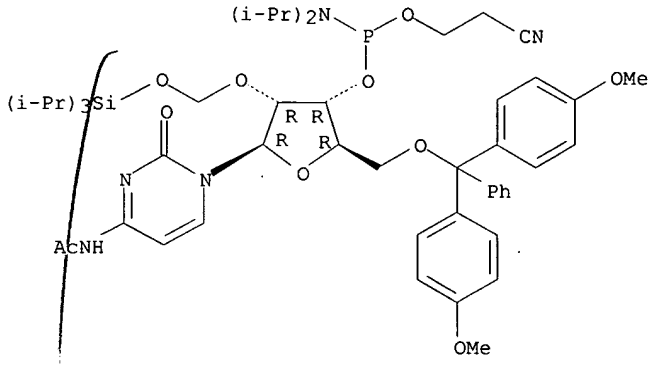
Absolute stereochemistry.



RN 253586-12-8 CAPLUS

CN Cytidine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

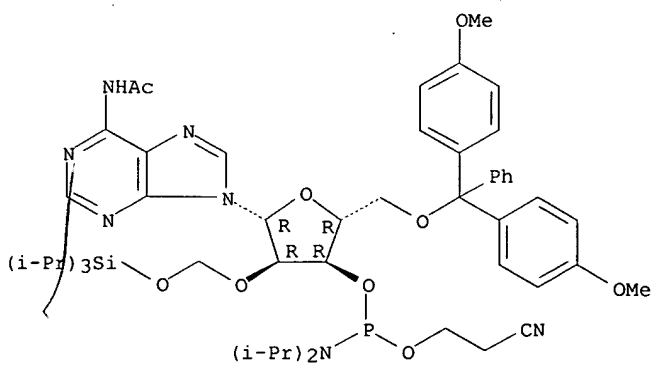
Absolute stereochemistry.



RN 253586-13-9 CAPLUS

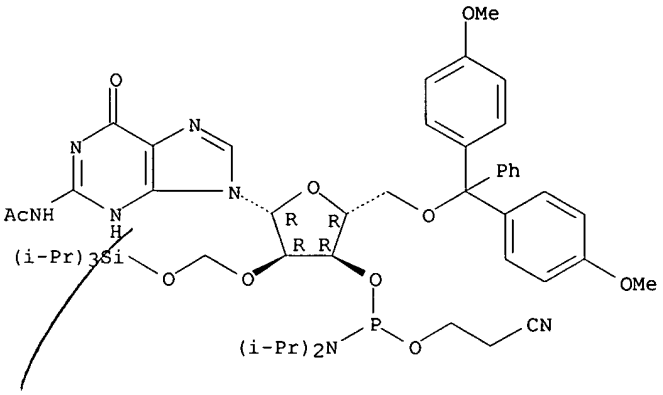
CN Adenosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 253586-14-0 CAPLUS
CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

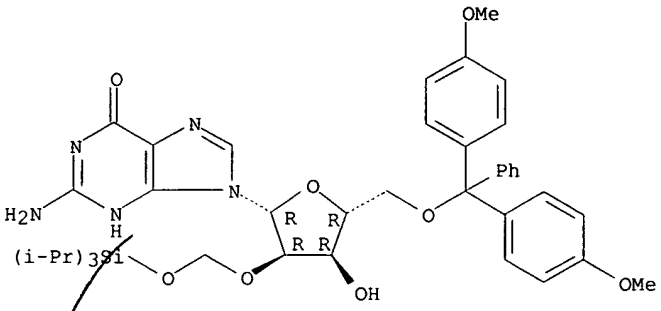


RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:1226038 CAPLUS
DN 144:88508
TI Synthesis of 2'-O-[(triisopropylsilyl)oxy]methyl(=tom)-protected ribonucleoside phosphoramidites containing various nucleobase analogs
AU Porcher, Sebastien; Pitsch, Stefan
CS Laboratory of Nucleic Acid Chemistry, EPFL-BCH, Lausanne, CH-1015, Switz.
SO Helvetica Chimica Acta (2005), 88(10), 2683-2704
CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta
DT Journal
LA English
OS CASREACT 144:88508
AB The first results of a study aiming at an efficient preparation of a large variety of 2'-O-[(triisopropylsilyl)oxy]methyl(=tom)-protected ribonucleoside phosphoramidite building blocks containing modified nucleobases are reported. All of the here presented nucleosides have already been incorporated into RNA sequences by several other groups, employing 2'-O-tbdms- or 2'-O-tom-protected phosphoramidite building blocks (tbdms=(tert-butyl)dimethyl-silyl). We now optimized existing reactions, developed some new and shorter synthetic strategies, and sometimes introduced other nucleobase-protecting groups. The 2'-O-tom, 5'-O-(dimethoxytrityl)-protected ribonucleosides N2-acetyl-iso-cytidine, O2-(diphenyl-carbamoyl)-N6-isobutyryl-isoguanosine, N6-isobutyryl-N2-(methoxy-acetyl)purine-2,6-diamine ribonucleoside (=N8-isobutyryl-2-[(methoxyacetyl)amino]adenosine), 5-methyluridine, and 5,6-dihydro-uridine were prepared by first introducing the nucleobase protecting groups and the dimethoxytrityl group, resp., followed by the 2'-O-tom group. The other presented 2'-O-tom, 5'-O-(dimethoxytrityl)-protected ribonucleosides inosine, 1-methyl-inosine 18, N6-iso-pent-2-enyl-adenosine, N6-methyl-adenosine, N6,N6-dimethyl-adenosine, 1-methyl-guanosine, N2-methylguanosine, N2,N2-dimethyl-guanosine, N6-(chloroacetyl)-1-methyladenosine, N6-(1S,2R)-2-[(tert-butyl)dimethyl-silyl]oxy-1-[2-(4-nitrophenyl)ethoxy]carbonylpropylamino carbonyl-adenosine (derived from L-threonine) and N4-acetyl-5-methyl-cytidine were prepared by nucleobase transformation reactions from standard, already 2'-O-tom-protected. Finally, all these nucleosides were transformed into the corresponding phosphoramidites, which are fully compatible with the assembly and deprotection conditions for standard RNA synthesis based on 2'-O-tom-protected monomeric building blocks.
IT 312709-92-5 672298-89-4 672298-94-1
872548-42-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of 2'-O-[(triisopropylsilyl)oxy]methyl(=tom)-protected ribonucleoside phosphoramidites containing various nucleobase analogs)
RN 312709-92-5 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-

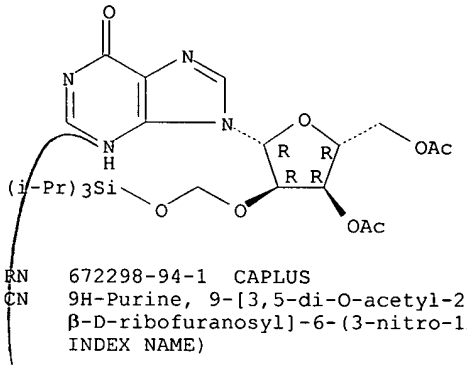
methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



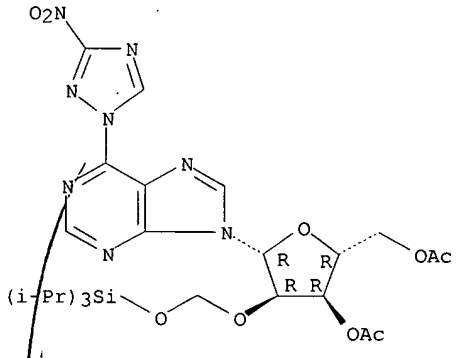
RN 672298-89-4 CAPLUS
CN Inosine, 2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3',5'-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



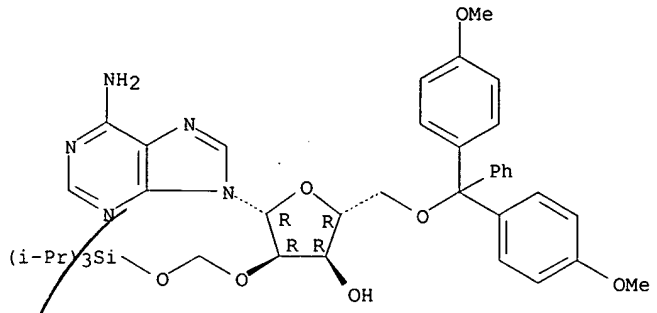
RN 672298-94-1 CAPLUS
CN 9H-Purine, 9-[3,5-di-O-acetyl-2-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-β-D-ribofuranosyl]-6-(3-nitro-1H-1,2,4-triazol-1-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 872548-42-0 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

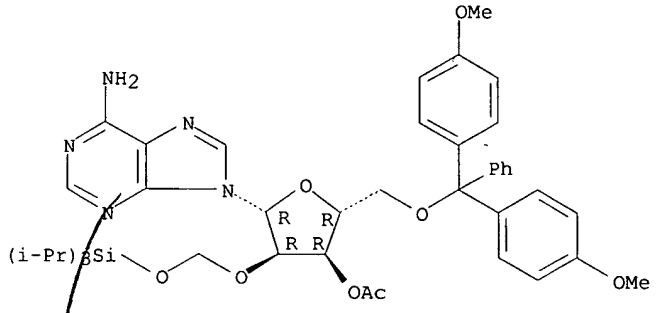
Absolute stereochemistry.



IT 312709-86-7P 661471-80-3P 661471-87-0P
661471-90-5P 872548-10-2P 872548-15-7P
872548-21-5P 872548-23-7P 872548-25-9P
872548-27-1P 872548-31-7P 872548-33-9P
872548-38-4P 872548-39-5P 872548-41-9P
872548-44-2P 872548-46-4P 872548-49-7P
872548-51-1P 872548-53-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of 2'-O-[(triisopropylsilyl)oxy]methyl(=tom)-protected ribonucleoside phosphoramidites containing various nucleobase analogs)

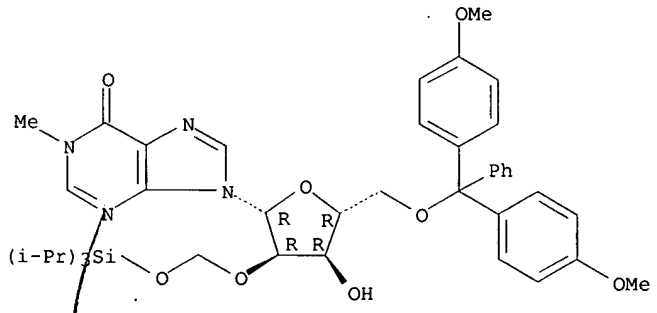
RN 312709-86-7 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



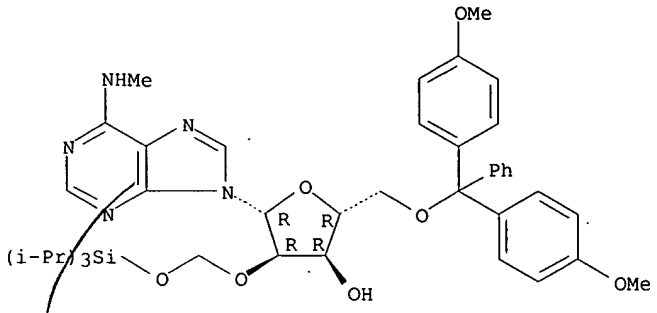
RN 661471-80-3 CAPLUS
CN Inosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-1-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



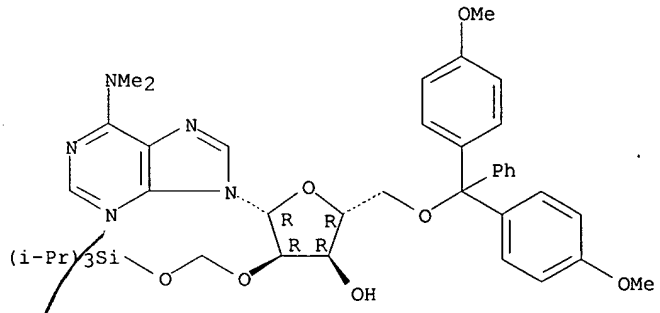
RN 661471-87-0 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



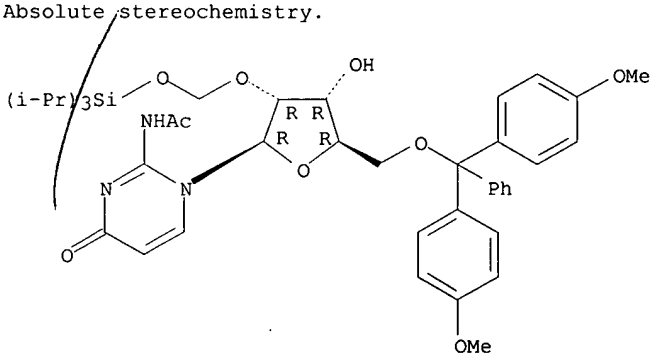
RN 661471-90-5 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N,N-dimethyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



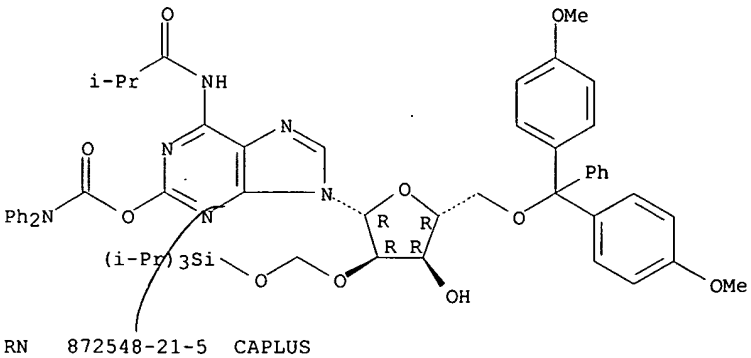
RN 872548-10-2 CAPLUS
CN Acetamide, N-[1-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-β-D-ribofuranosyl]-1,4-dihydro-4-oxo-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



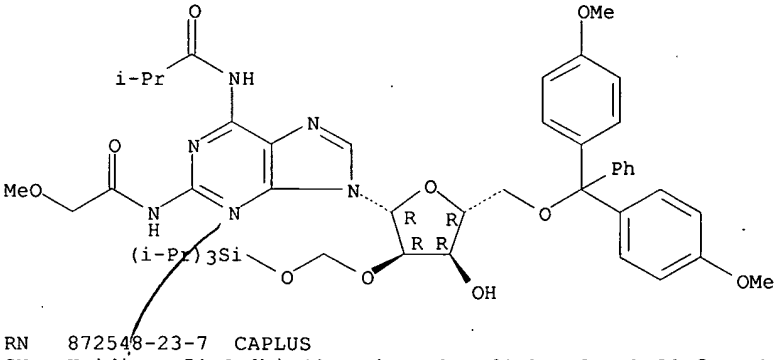
RN 872548-15-7 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2-[[(diphenylamino)carbonyl]oxy]-N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



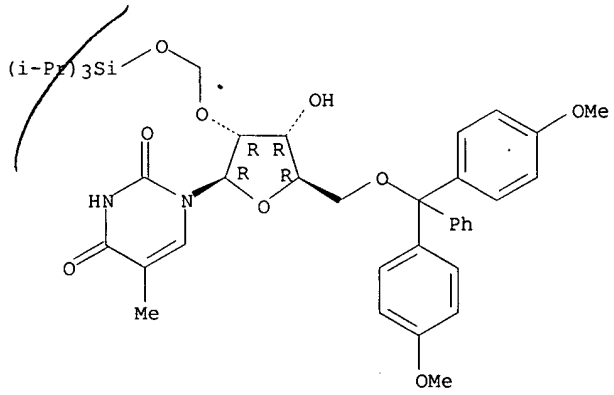
RN 872548-21-5 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2-[(methoxyacetyl)amino]-N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



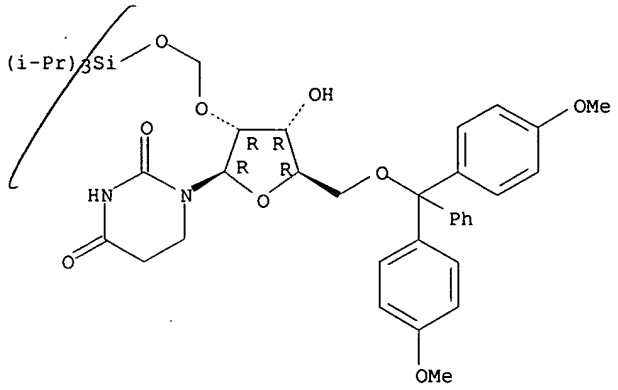
RN 872548-23-7 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-5-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



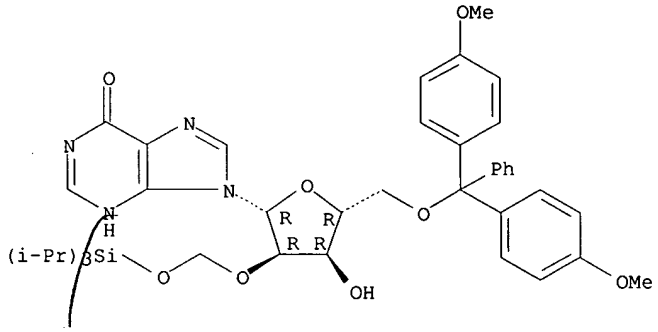
RN 872548-25-9 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-5,6-dihydro-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



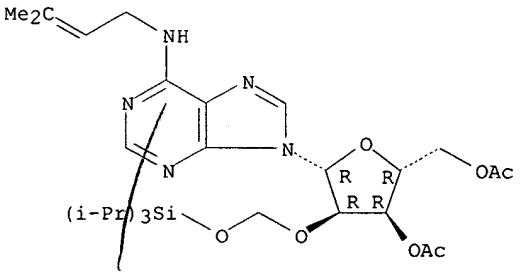
RN 872548-27-1 CAPLUS
CN Inosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



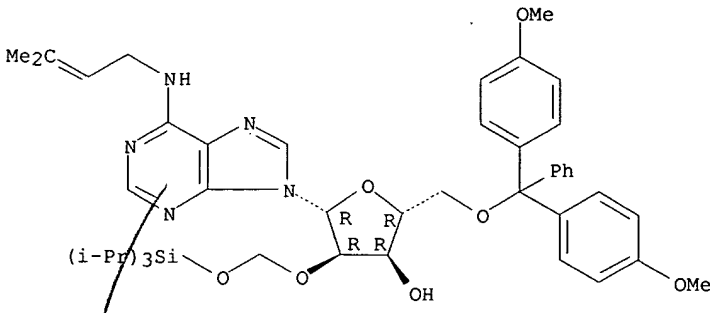
RN 872548-31-7 CAPLUS
CN Adenosine, N-(3-methyl-2-butenyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3',5'-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



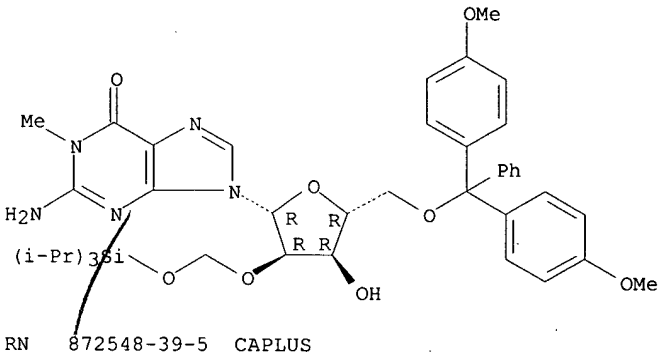
RN 872548-33-9 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(3-methyl-2-butenyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



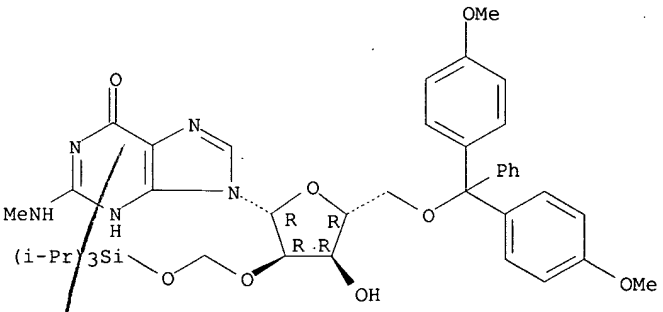
RN 872548-38-4 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-1-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



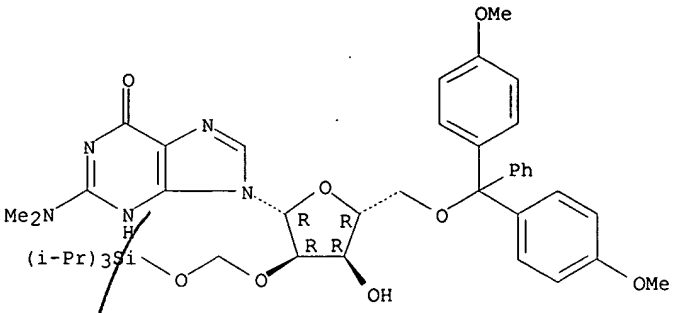
RN 872548-39-5 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



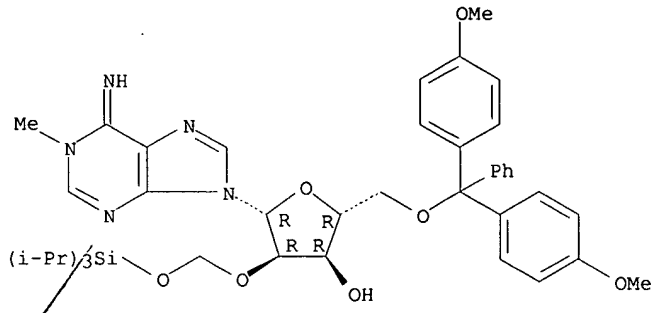
RN 872548-41-9 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N,N-dimethyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



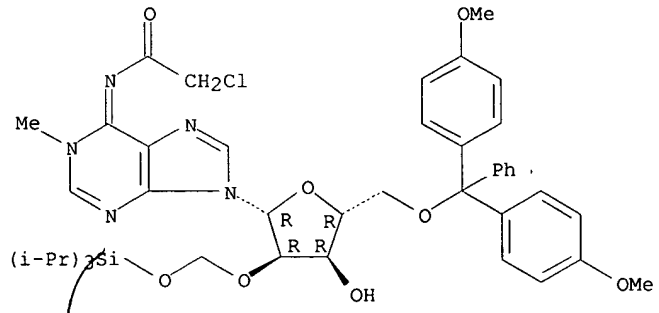
RN 872548-44-2 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-1-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 872548-46-4 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(chloroacetyl)-1-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

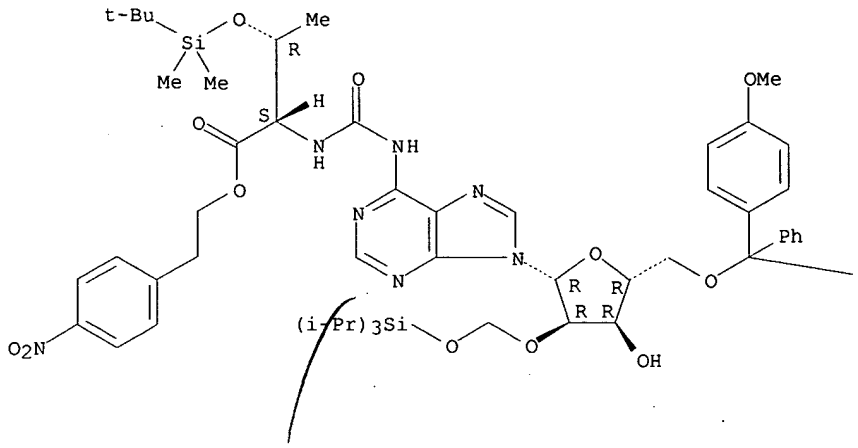
Absolute stereochemistry.
Double bond geometry unknown.



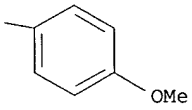
RN 872548-49-7 CAPLUS
CN L-Threonine, N-[[[9-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-β-D-ribofuranosyl]-9H-purin-6-yl]amino]carbonyl]-O-[(1,1-dimethylethyl)dimethylsilyl]-, 2-(4-nitrophenyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

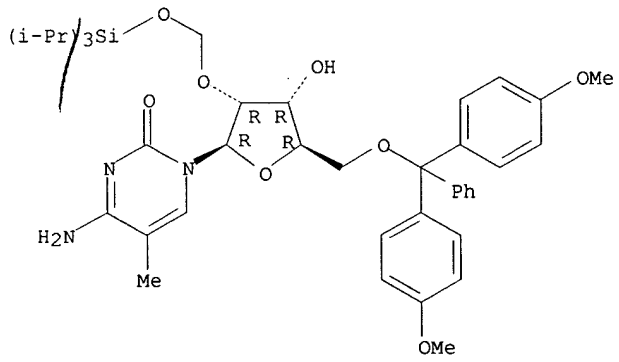


PAGE 1-B



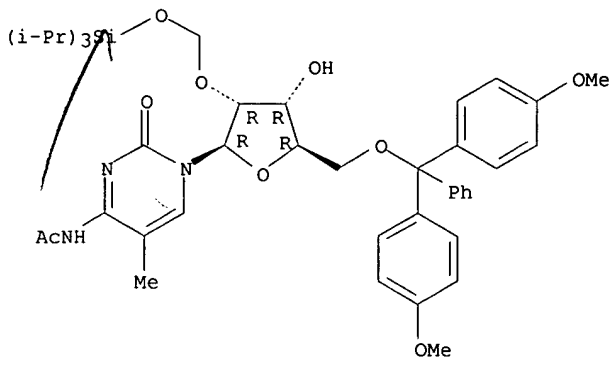
RN 872548-51-1 CAPLUS
CN Cytidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-5-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 872548-53-3 CAPLUS
CN Cytidine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-5-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

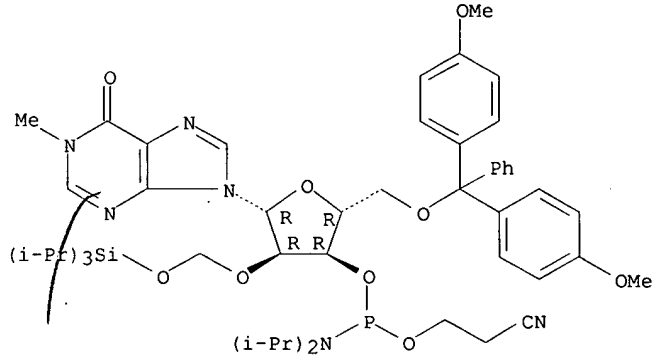
Absolute stereochemistry.



IT 661471-81-4P 661471-88-1P 661471-91-6P
872548-54-4P 872548-55-5P 872548-56-6P
872548-57-7P 872548-58-8P 872548-59-9P
872548-60-2P 872548-61-3P 872548-62-4P
872548-63-5P 872548-64-6P 872548-65-7P
872548-66-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of 2'-O-[(triisopropylsilyl)oxy]methyl(=tom)-protected ribonucleoside phosphoramidites containing various nucleobase analogs)

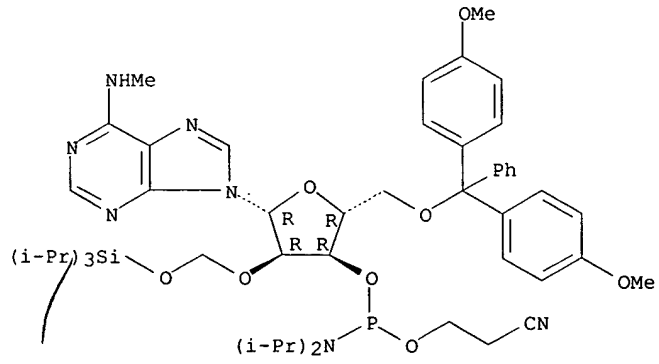
RN 661471-81-4 CAPLUS
CN Inosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-1-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 661471-88-1 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

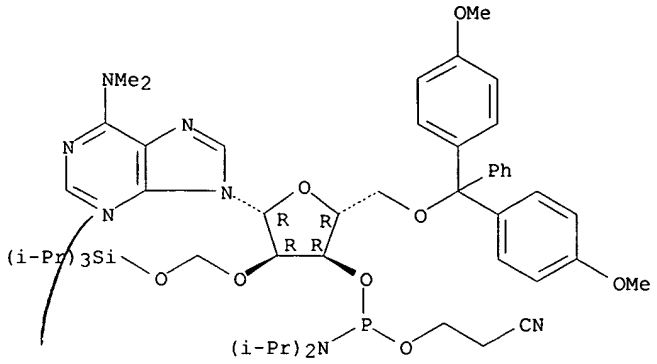
Absolute stereochemistry.



McIntosh

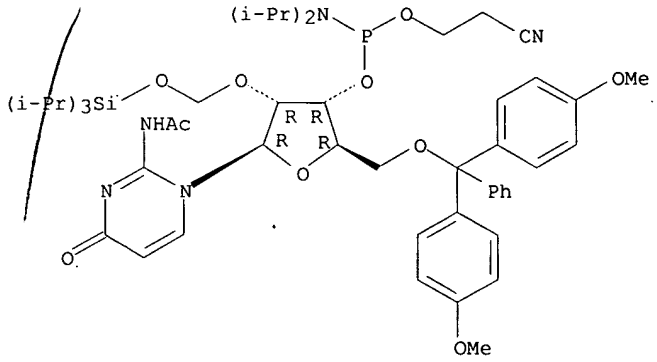
RN 661471-91-6 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N,N-dimethyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



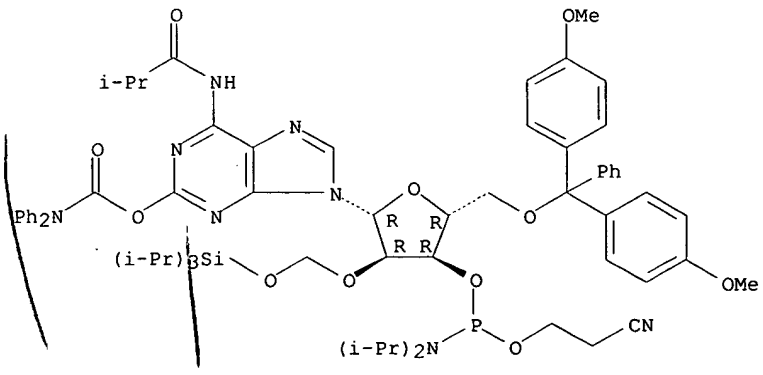
RN 872548-54-4 CAPLUS
CN Acetamide, N-[1-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-β-D-ribofuranosyl]-1,4-dihydro-4-oxo-2-pyrimidinyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



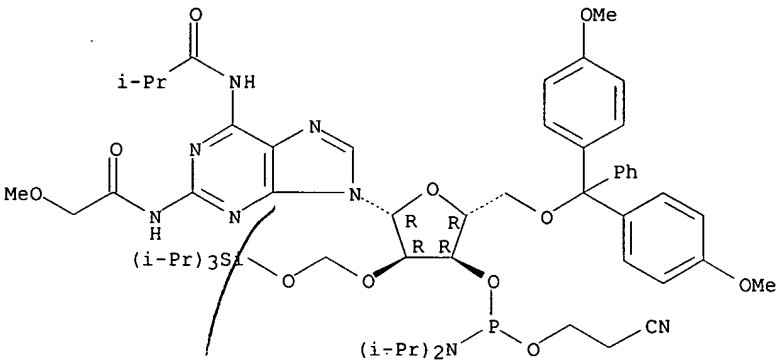
RN 872548-55-5 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2-[[(diphenylamino)carbonyl]oxy]-N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



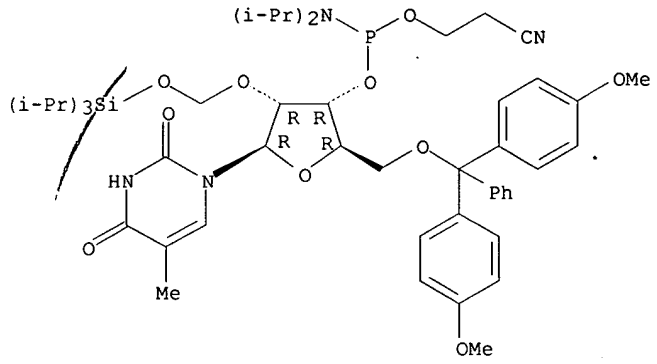
RN 872548-56-6 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2-[(methoxyacetyl)amino]-N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



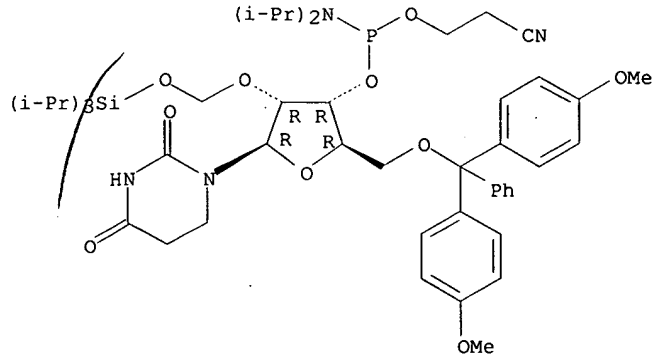
RN 872548-57-7 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-5-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



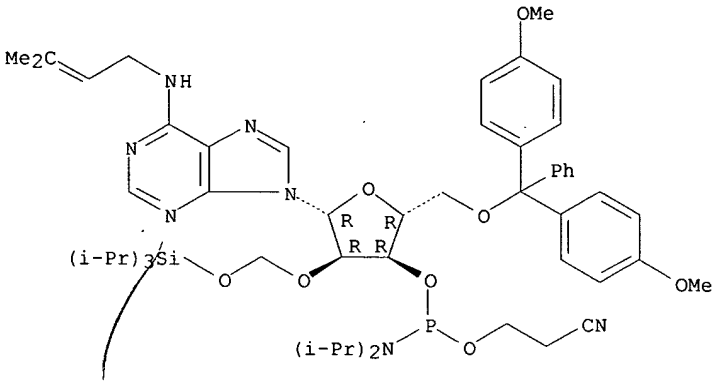
RN 872548-58-8 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-5,6-dihydro-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



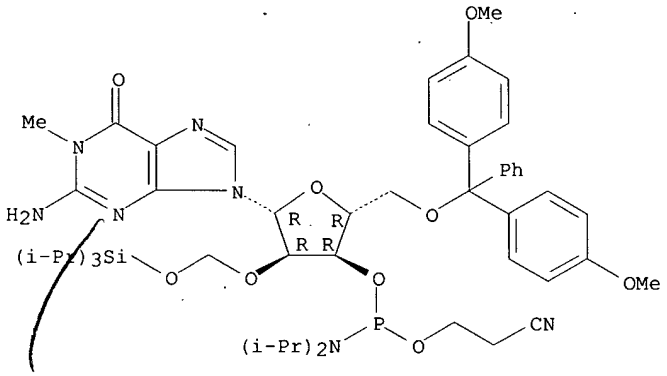
RN 872548-59-9 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(3-methyl-2-butenyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



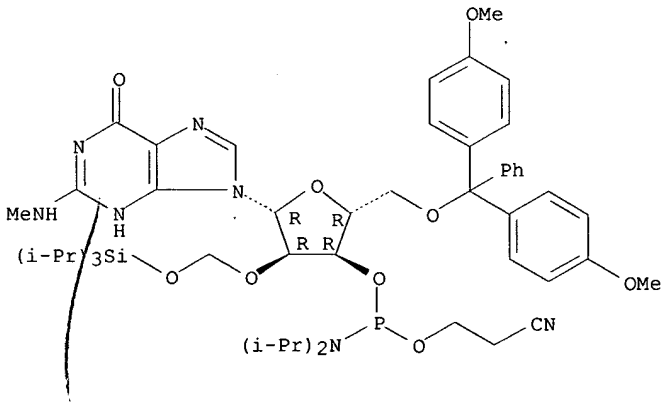
RN 872548-60-2 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-1-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 872548-61-3 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

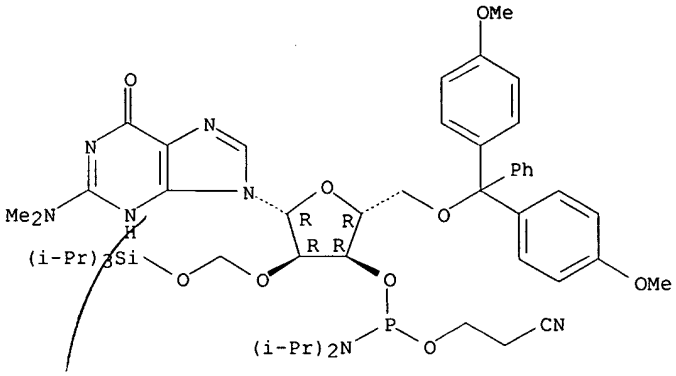
Absolute stereochemistry.



McIntosh

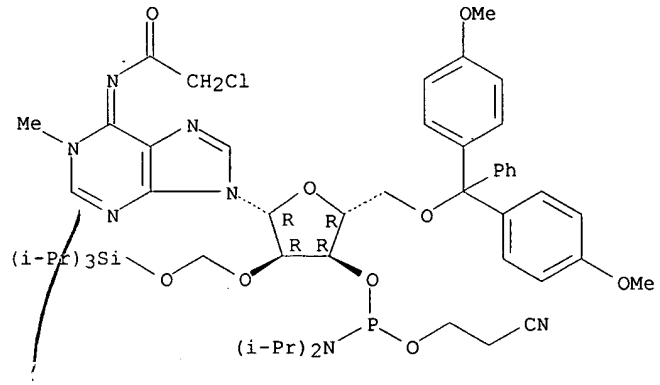
RN 872548-62-4 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N,N-dimethyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 872548-63-5 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(chloroacetyl)-1-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

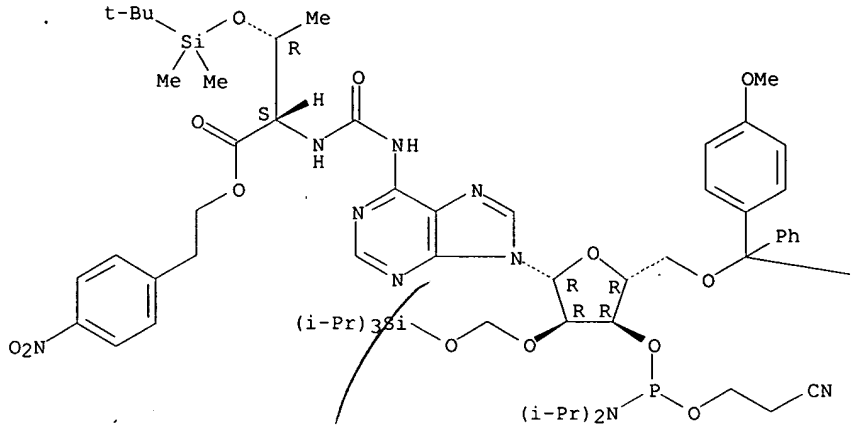
Absolute stereochemistry.
Double bond geometry unknown.



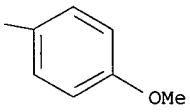
RN 872548-64-6 CAPLUS
CN L-Threonine, N-[[[9-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-β-D-ribofuranosyl]-9H-purin-6-yl]amino]carbonyl]-O-[(1,1-dimethylethyl)dimethylsilyl]-, 2-(4-nitrophenyl)ethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

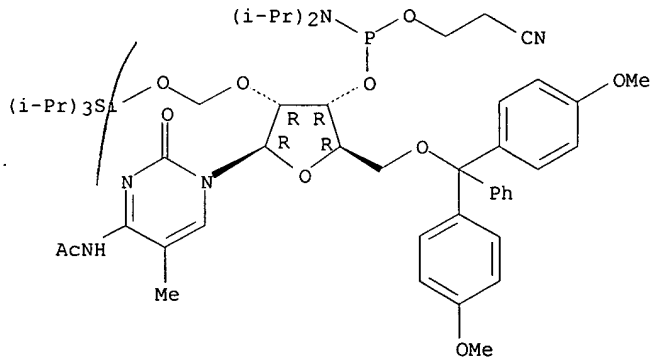


PAGE 1-B



RN 872548-65-7 CAPLUS
CN Cytidine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-3'-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-5-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

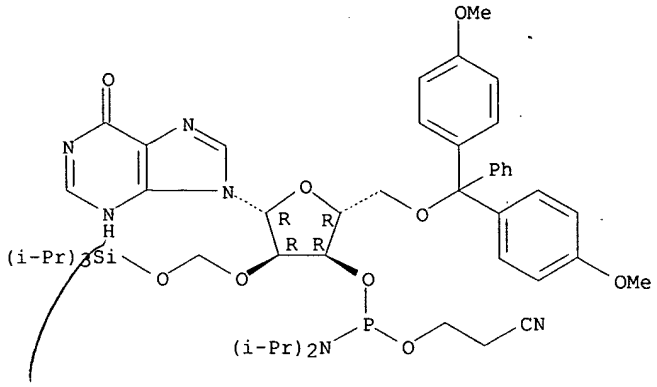
Absolute stereochemistry.



RN 872548-66-8 CAPLUS
CN Inosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

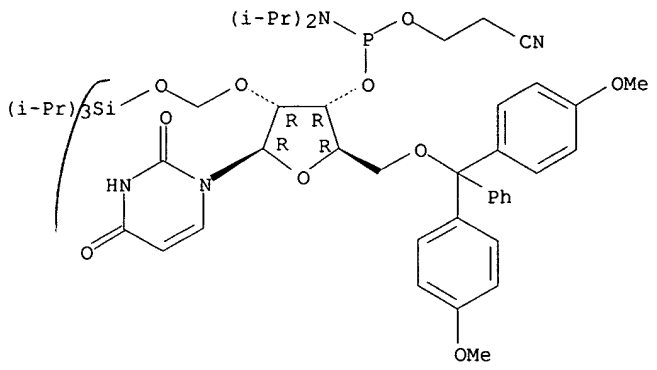
McIntosh



RE.CNT 56 THERE ARE 56 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

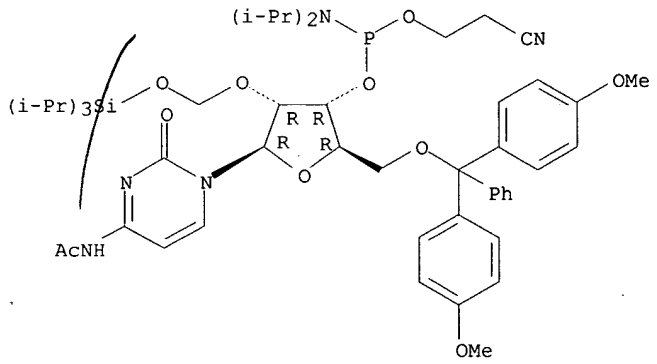
L4 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:336513 CAPLUS
DN 143:55900
TI Accurate molecular weight measurements of nucleoside phosphoramidites: a suitable matrix of mass spectrometry
AU Fujitake, Mihoyo; Harusawa, Shinya; Araki, Lisa; Yamaguchi, Maho; Lilley, David M. J.; Zhao, Zheng-Yun; Kurihara, Takushi
CS Osaka University of Pharmaceutical Sciences, 4-20-1, Nasahara, Takatsuki, Osaka, 569-1094, Japan
SO Tetrahedron (2005), 61(19), 4689-4699
CODEN: TETRAB; ISSN: 0040-4020
PB Elsevier B.V.
DT Journal
LA English
AB Nucleoside phosphoramidites (PAs) are the most widely used building blocks in contemporary solid-phase synthesis of oligonucleotides. The accurate mol. weight (MW) measurements of such mols., which contain acid-labile moieties, may be easily determined by mass spectrometry using a matrix system, triethanolamine (TEOA)-NaCl, on liquid secondary ion mass spectrometry (LSIMS) equipped with a double-focusing mass spectrometer. The present method measures rapidly and easily the accurate MWs of various PAs as adduct ions [M+Na]+ with average mass error smaller than 0.4 ppm, allowing the formulas of various PAs in place of elemental anal. Further, it was found that intensities of mol.-related ions could be enhanced to the highest degree by adjustment of the mole ratio of PA and NaCl fixing the amount of TEOA on LSIMS, making the present method powerful tool for the MS identification of PAs.
IT 220230-62-6 253586-12-8 253586-13-9
253586-14-0
RL: ANT (Analyte); ANST (Analytical study)
(accurate mol. weight measurements of nucleoside phosphoramidites by matrix of mass spectrometry)
RN 220230-62-6 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



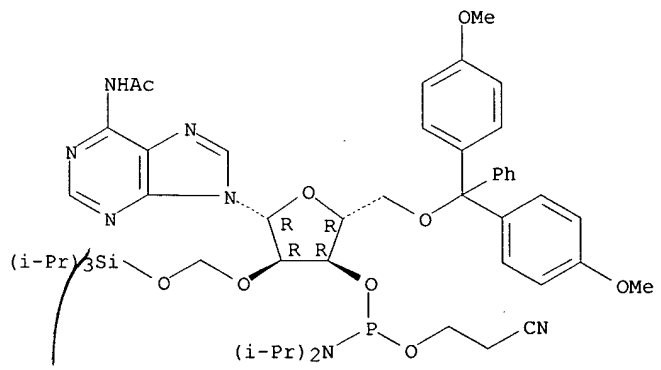
RN 253586-12-8 CAPLUS
CN Cytidine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



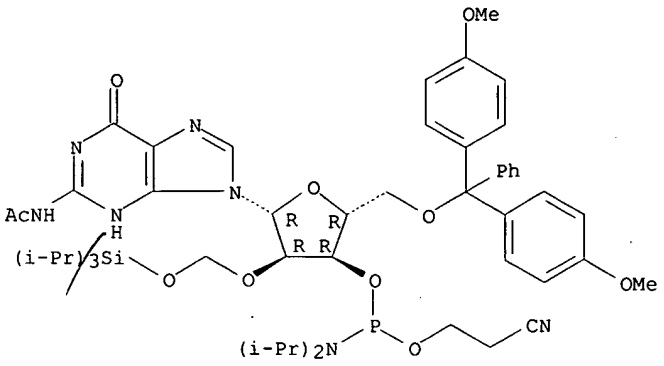
RN 253586-13-9 CAPLUS
CN Adenosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



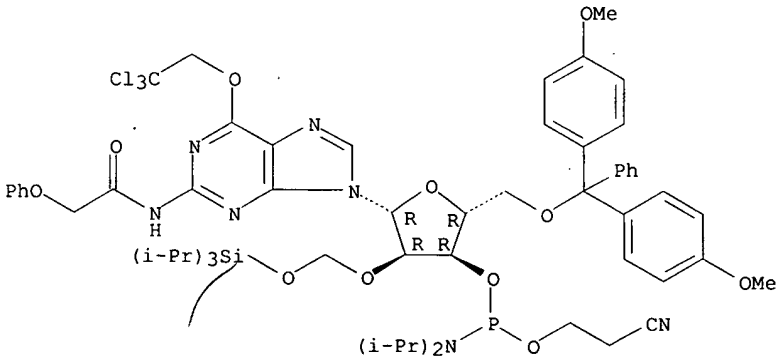
RN 253586-14-0 CAPLUS
CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



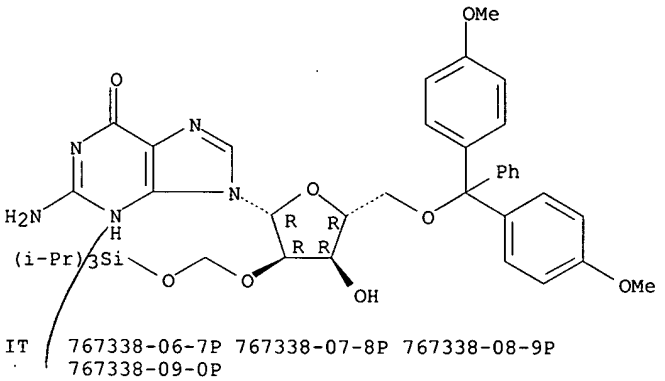
L4 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:650820 CAPLUS
DN 141:327290
TI Triggering of RNA secondary structures by a functionalized nucleobase
AU Hoebartner, Claudia; Mittendorfer, Harald; Breuker, Kathrin; Micura, Ronald
CS Institut fuer Organische Chemie, Leopold Franzens Universitaet, Innsbruck, 6020, Austria
SO Angewandte Chemie, International Edition (2004), 43(30), 3922-3925
CODEN: ACIEF5; ISSN: 1433-7851
PB Wiley-VCH Verlag GmbH & Co. KGaA
DT Journal
LA English
OS CASREACT 141:327290
AB Defined RNA secondary-structure rearrangements can be controlled by chemical functionalized nucleobases. The proof of principle for this previously unrecognized concept for manipulating secondary structures is based on a novel type of functionalized guanosine residue that provides an easily cleavable trichloroethyl (tce) moiety at the Watson-Crick base-pairing site.
IT 767338-10-3P
RL: BUU (Biological use, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(triggering of RNA secondary structures by a functionalized nucleobase)
RN 767338-10-3 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(phenoxyacetyl)-6-O-(2,2,2-trichloroethyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 312709-92-5
RL: RCT (Reactant); RACT (Reactant or reagent)
(triggering of RNA secondary structures by a functionalized nucleobase)
RN 312709-92-5 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

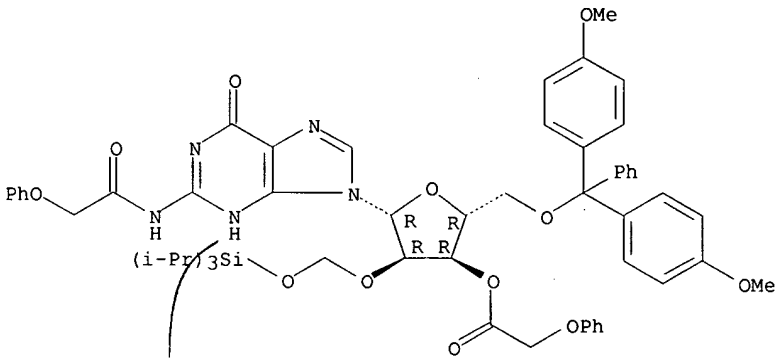


IT 767338-06-7P 767338-07-8P 767338-08-9P
767338-09-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(triggering of RNA secondary structures by a functionalized nucleobase)

RN 767338-06-7 CAPLUS

CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(phenoxyacetyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-(phenoxyacetate) (9CI) (CA INDEX NAME)

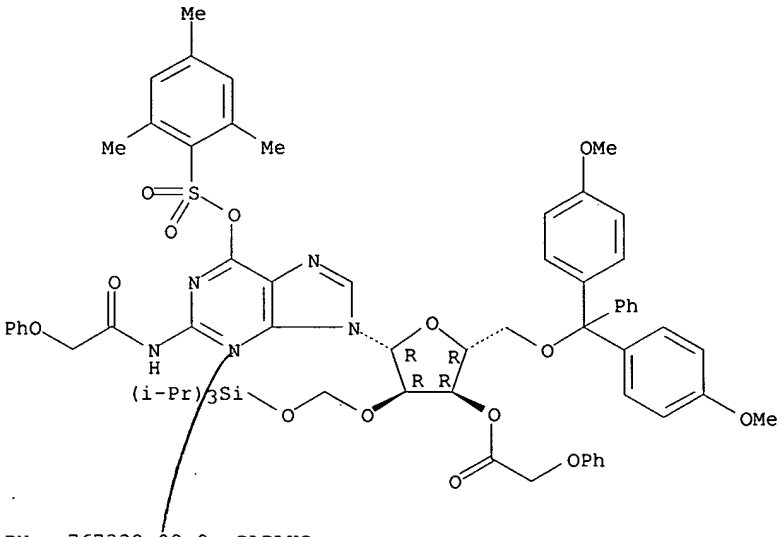
Absolute stereochemistry.



RN 767338-07-8 CAPLUS

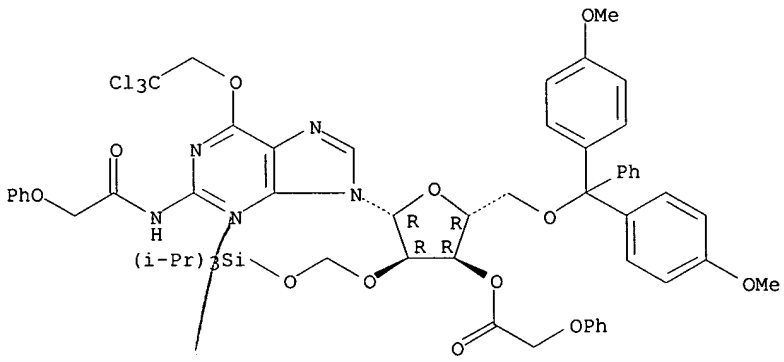
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(phenoxyacetyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-(phenoxyacetate) 6-(2,4,6-trimethylbenzenesulfonate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



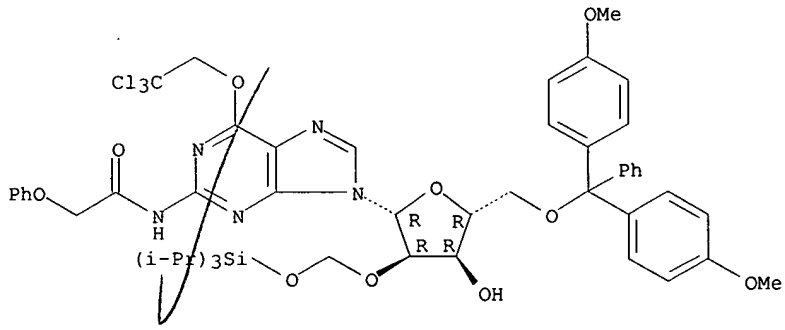
RN 767338-08-9 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(phenoxyacetyl)-6-O-(2,2,2-trichloroethyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-(phenoxyacetate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 767338-09-0 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(phenoxyacetyl)-6-O-(2,2,2-trichloroethyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

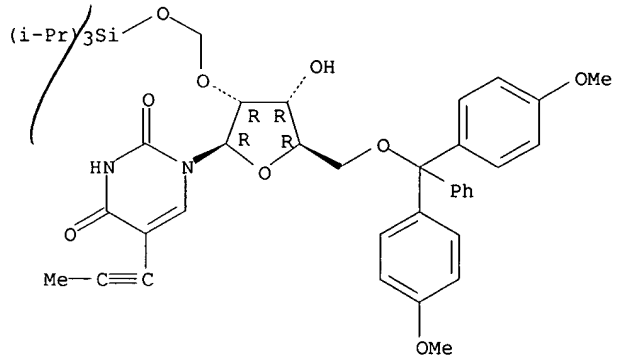


RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN

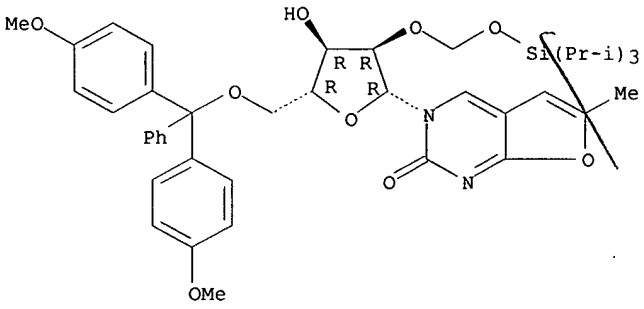
AN 2004:153546 CAPLUS
DN 140:375409
TI Pyrrolo-dC and pyrrolo-C: fluorescent analogs of cytidine and 2'-deoxycytidine for the study of oligonucleotides
AU Berry, David A.; Jung, Kee-Yong; Wise, Dean S.; Sercel, Anthony D.; Pearson, William H.; Mackie, Hugh; Randolph, John B.; Somers, Robert L.
CS Berry & Associates, Inc., Dexter, MI, 48130, USA
SO Tetrahedron Letters (2004), 45(11), 2457-2461
CODEN: TELEAY; ISSN: 0040-4039
PB Elsevier Science B.V.
DT Journal
LA English
OS CASREACT 140:375409
AB Pyrrolo-dC (6-methyl-3-(2-deoxy-β-D-ribofuranosyl)-3H-pyrrolo[2,3-d]pyrimidin-2-one) and its cyanoethyl phosphoramidite were synthesized. The latter was incorporated into oligodeoxyribonucleotides by standard automated synthesis techniques, where pyrrolo-dC was found to serve as a fluorescent analog of deoxycytidine. The cyanoethyl-phosphoramidite of pyrrolo-C (6-methyl-3-(β-D-ribofuranosyl)-3H-pyrrolo[2,3-d]pyrimidin-2-one) was also synthesized and may find use for the site-specific incorporation of a fluorescent cytidine analog into oligodeoxyribonucleotides.
IT 682335-05-3P 682335-06-4P 682335-07-5P
682335-08-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyrrolo-C nucleoside phosphoramidite fluorescent analogs of cytidine and deoxycytidine in synthesis of oligonucleotides)
RN 682335-05-3 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-5-(1-propynyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 682335-06-4 CAPLUS
CN Furo[2,3-d]pyrimidin-2(3H)-one, 3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-β-D-ribofuranosyl]-6-methyl- (9CI) (CA INDEX NAME)

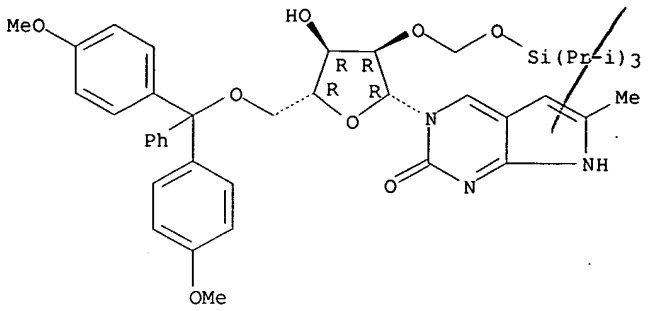
Absolute stereochemistry.



RN 682335-07-5 CAPLUS

CN 2H-Pyrrolo[2,3-d]pyrimidin-2-one, 3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-2-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-β-D-ribofuranosyl]-1,3-dihydro-6-methyl- (9CI) (CA INDEX NAME)

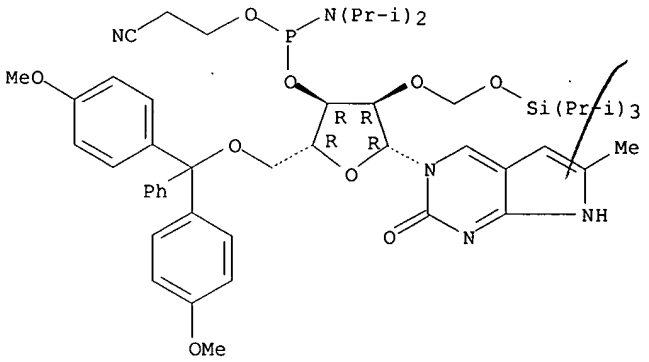
Absolute stereochemistry.



RN 682335-08-6 CAPLUS

CN 2H-Pyrrolo[2,3-d]pyrimidin-2-one, 3-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-β-D-ribofuranosyl]-1,3-dihydro-6-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

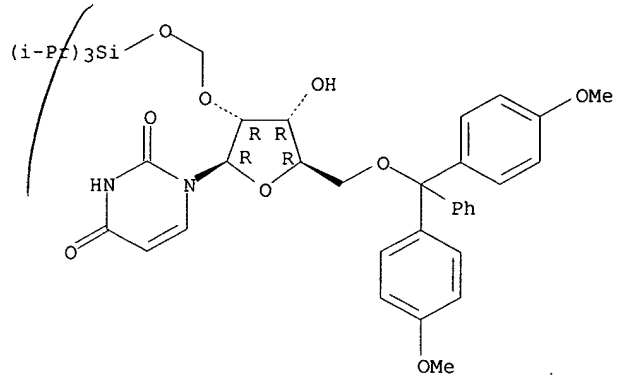


RE.CNT 58 THERE ARE 58 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2004:69441 CAPLUS
DN 140:271142
TI Synthesis of selectively 15N-labeled 2'-O-{[(triisopropylsilyl)oxy]methyl}(=tom)-protected ribonucleoside phosphoramidites and their incorporation into a bistable 32mer RNA sequence
AU Wenter, Philipp; Pitsch, Stefan
CS Laboratory of Nucleic Acid Chemistry, Ecole Polytechnique Federale de Lausanne (EPFL), EPFL-BCH, Lausanne, CH-1015, Switz.
SO Helvetica Chimica Acta (2003), 86(12), 3955-3974
CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta
DT Journal
LA English
OS CASREACT 140:271142
AB We present optimized reaction conditions for the conversion of 2'-O-{[(triisopropylsilyl)oxy]methyl}(tom) protected uridine and adenosine nucleosides into the corresponding protected (3-15N)-labeled uridine and cytidine and (1-15N)-labeled adenosine and guanosine nucleosides. On a DNA synthesizer, the resulting 15N-labeled 2'-O-tom-protected phosphoramidite building blocks were efficiently incorporated into five selected positions of a hairpin bi-stable 32mer RNA sequence. By 2D-HSQC and HNN-COSY expts. in H2O/D2O 9:1, the 15N-signals of all base-paired 15N-labeled nucleotides could be identified and attributed to one of the two coexisting structures of 32mer RNA sequence.

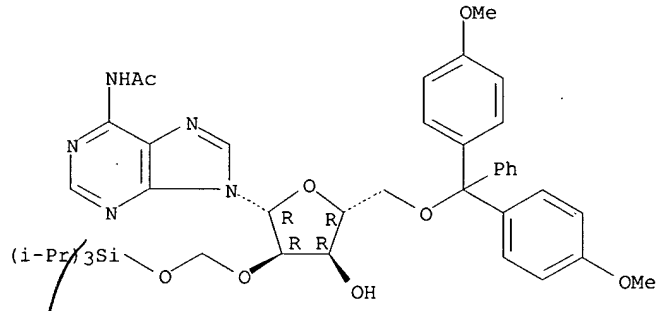
IT 220230-58-0 253586-22-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of selectively 15N-labeled 2'-O-{[(triisopropylsilyl)oxy]methyl}(tom)-protected ribonucleoside phosphoramidites and their incorporation into a bistable 32mer RNA sequence)
RN 220230-58-0 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



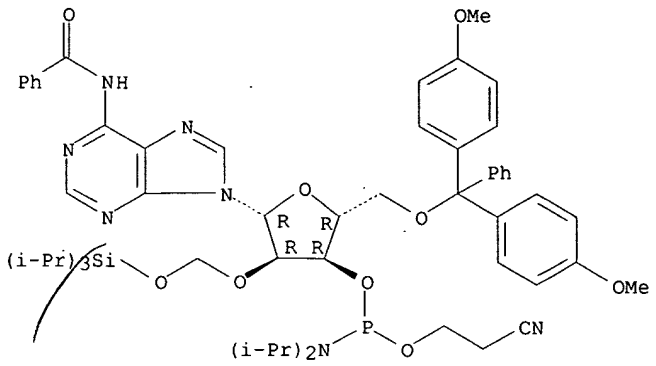
RN 253586-22-0 CAPLUS
CN Adenosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



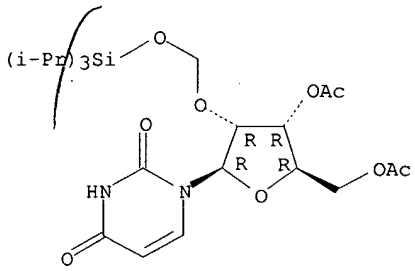
IT 220230-59-1P 672298-84-9P 672298-85-0P
672298-86-1P 672298-87-2P 672298-88-3P
672298-89-4P 672298-90-7P 672298-91-8P
672298-92-9P 672298-93-0P 672298-94-1P
672298-95-2P 672298-96-3P 672298-97-4P
672298-98-5P 672298-99-6P 672299-00-2P
672299-01-3P 672299-02-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of selectively 15N-labeled 2'-O-{[(triisopropylsilyl)oxy]methyl}(tom)-protected ribonucleoside phosphoramidites and their incorporation into a bistable 32mer RNA sequence)
RN 220230-59-1 CAPLUS
CN Adenosine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



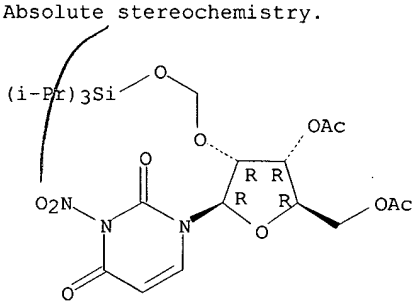
RN 672298-84-9 CAPLUS
CN Uridine, 2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3',5'-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



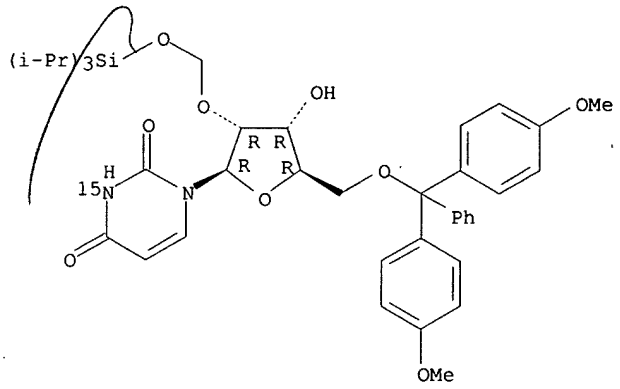
RN 672298-85-0 CAPLUS
CN Uridine, 3-nitro-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3',5'-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



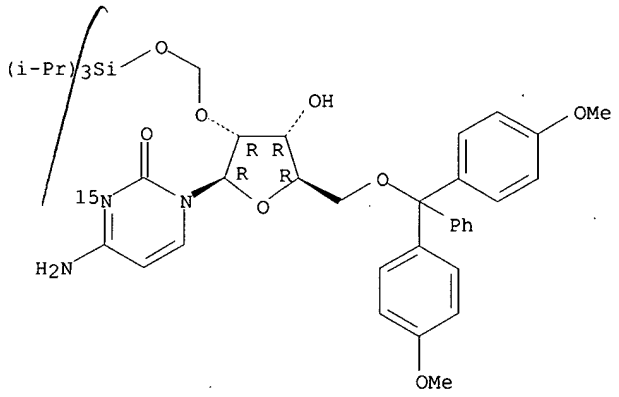
RN 672298-86-1 CAPLUS
CN Uridine-3-15N, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



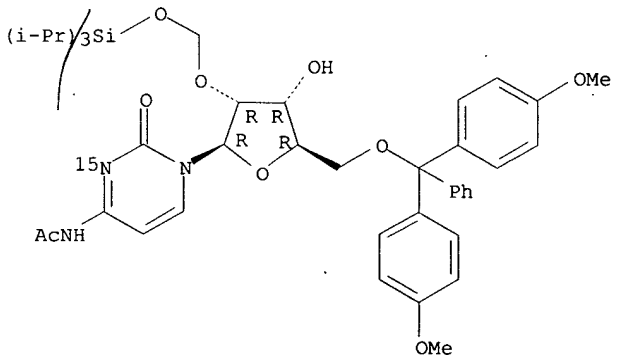
RN 672298-87-2 CAPLUS
CN Cytidine-3-15N, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



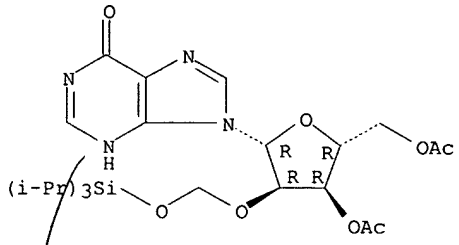
RN 672298-88-3 CAPLUS
CN Cytidine-3-15N, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



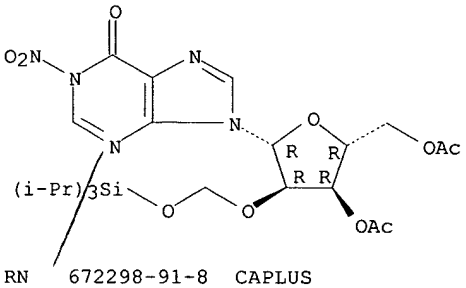
RN 672298-89-4 CAPLUS
CN Inosine, 2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3',5'-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



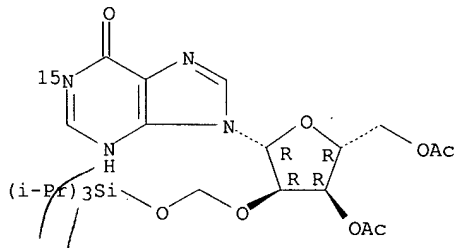
RN 672298-90-7 CAPLUS
CN Inosine, 1-nitro-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3',5'-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



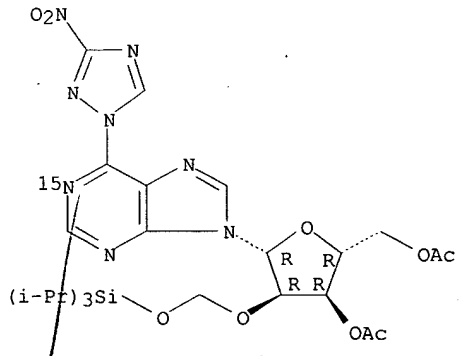
RN 672298-91-8 CAPLUS
CN Inosine-1-15N, 2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3',5'-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



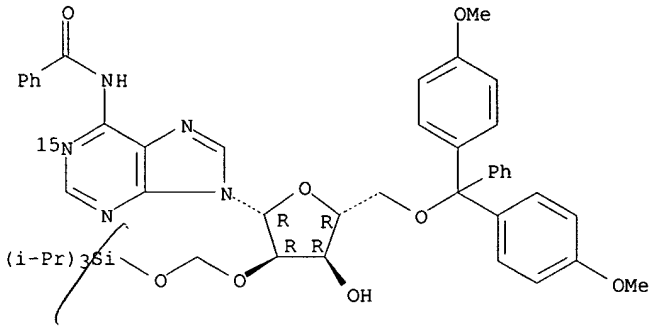
RN 672298-92-9 CAPLUS
CN 9H-Purine-1-15N, 9-[3,5-di-O-acetyl-2-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-β-D-ribofuranosyl]-6-(3-nitro-1H-1,2,4-triazol-1-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



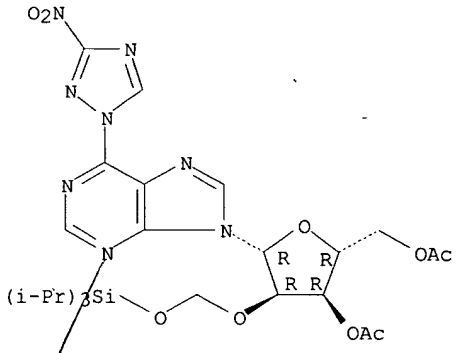
RN 672298-93-0 CAPLUS
CN Adenosine-1-15N, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



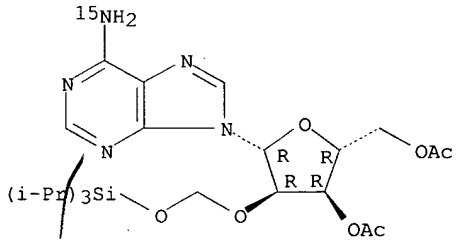
RN 672298-94-1 CAPLUS
CN 9H-Purine, 9-[3,5-di-O-acetyl-2-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-β-D-ribofuranosyl]-6-(3-nitro-1H-1,2,4-triazol-1-yl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



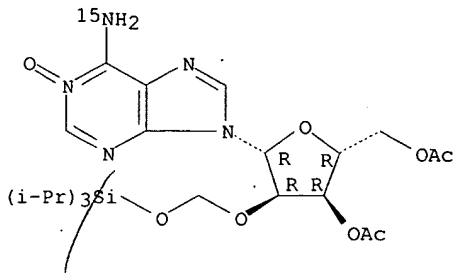
RN 672298-95-2 CAPLUS
CN Adenosine-N-15N, 2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3',5'-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



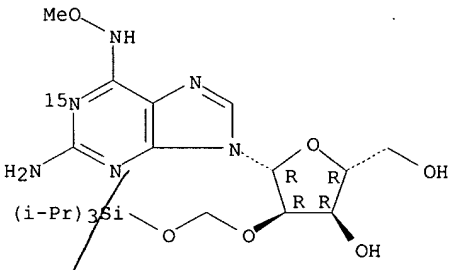
RN 672298-96-3 CAPLUS
CN Adenosine-N-15N, 2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3',5'-diacetate, 1-oxide (9CI) (CA INDEX NAME)

Absolute stereochemistry.



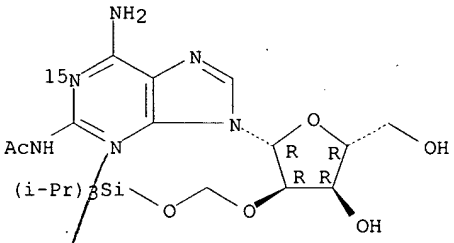
RN 672298-97-4 CAPLUS
CN Guanosine-1-15N, 2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, O-methyloxime (9CI) (CA INDEX NAME)

Absolute stereochemistry.



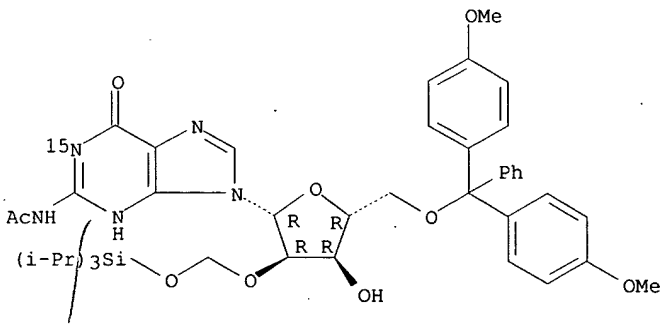
RN 672298-98-5 CAPLUS
CN Adenosine-1-15N, 2-(acetylamino)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



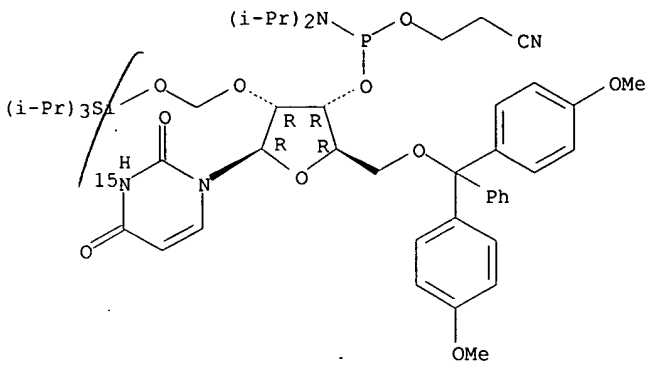
RN 672298-99-6 CAPLUS
CN Guanosine-1-15N, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



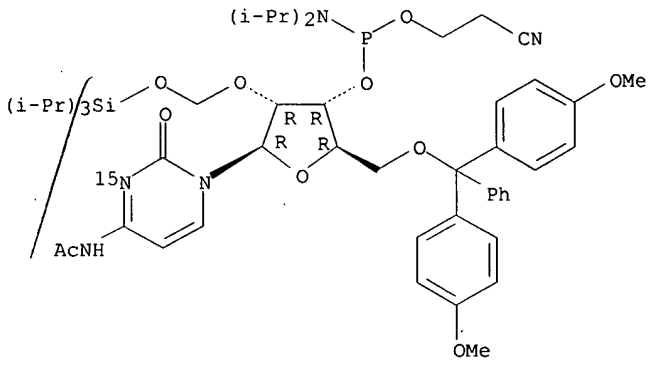
RN 672299-00-2 CAPLUS
CN Uridine-3-15N, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



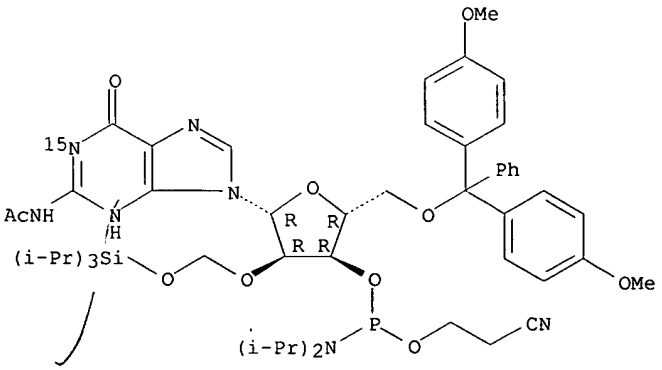
RN 672299-01-3 CAPLUS
CN Cytidine-3-15N, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 672299-02-4 CAPLUS
CN Guanosine-1-15N, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

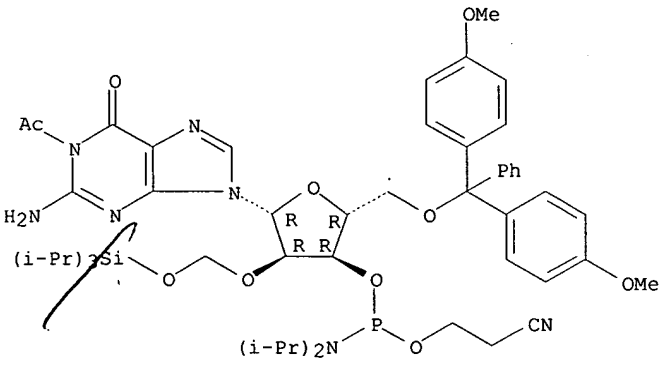


RE.CNT 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2004:42356 CAPLUS
DN 140:235991
TI Hydrolysis of 2',3'-O-methyleneadenos-5'-yl Bis(2',5'-di-O-methylurid-3'-yl) Phosphate, a Sugar O-Alkylated Trinucleoside 3',3',5'-Monophosphate: Implications for the Mechanism of Large Ribozymes
AU Loennberg, Tuomas; Mikkola, Satu
CS Department of Chemistry, University of Turku, Turku, FIN-20014, Finland
SO Journal of Organic Chemistry (2004), 69(3), 802-810
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 140:235991
AB Hydrolytic reactions of 2',3'-O-methyleneadenos-5'-yl bis(2',5'-di-O-methylurid-3'-yl) phosphate (I), a sugar O-alkylated trinucleoside 3',3',5'-monophosphate, have been followed by RP HPLC over a wide pH range. Under neutral and mildly acidic conditions, the only reaction observed was a pH-independent cleavage of the O-C5' bond of the 5'-linked nucleoside. Under more alkaline conditions nucleophilic attack by hydroxide ion starts to compete. The reaction is first order in [OH-] and becomes predominant at pH 10. Each of the 3'-linked nucleosides is displaced 2.9 times as readily as the 5'-linked one. To determine the βlg value for the hydroxide ion catalyzed hydrolysis of I, two diesters having 2',3'-O-methyleneadenosine (II) and 2',5'-di-O-methyluridine (III) as leaving groups were hydrolyzed under alkaline conditions. Since the βlg value for this reaction is known, ΔpKa between III and II could be calculated The βlg for the hydrolysis of I was estimated to be -0.5 with use of this information. The mechanisms of the partial reactions and the role of leaving group properties in ribozyme reactions of large ribozymes are discussed.
IT 861429-79-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(kinetics of hydrolysis and reaction mechanism anal. of 2',3'-O-methyleneadenos-5'-yl bis(2',5'-di-O-methylurid-3'-yl) phosphate, and glycoside O-alkylated trinucleoside 3',3',5'-monophosphate)
RN 861429-79-0 CAPLUS
CN Guanosine, 1-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

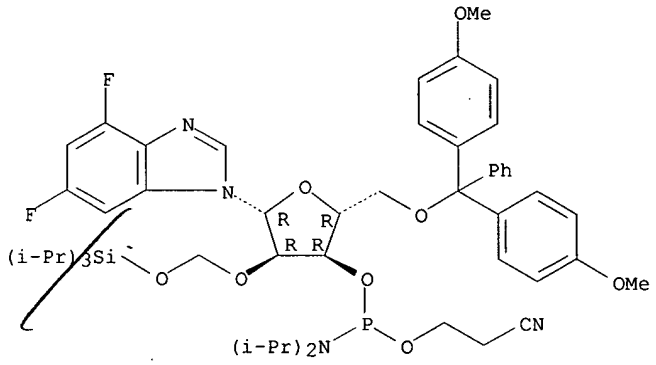


RE.CNT 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:714415 CAPLUS
DN 140:402273
TI The Effect of Universal Fluorinated Nucleobases on the Catalytic Activity of Ribozymes
AU Kloepffer, A. E.; Engels, J. W.
CS Institute for Organic Chemistry and Chemical Biology, Johann-Wolfgang-Goethe University, Frankfurt am Main, D-60439, Germany
SO Nucleosides, Nucleotides & Nucleic Acids (2003), 22(5-8), 1347-1350
CODEN: NNNAFY; ISSN: 1525-7770
PB Marcel Dekker, Inc.

DT Journal
LA English
OS CASREACT 140:402273
AB Four fluoro-modified universal nucleobases have been synthesized. The universal nucleobases 1 and 2, containing a 2,4-difluorobenzene as nucleobase and a 4,6-difluorobenzimidazole, resp., were chemical incorporated into a selected hammerhead ribozyme sequence which has already been retrovirally expressed as an anti-HIV ribozyme to investigate their effect on the catalytic activity of the ribozymes. The substitution of the natural nucleosides with either 1 or 2 results only in a small decrease of the catalytic activity. The Km value for the monosubstituted ribozyme with a 2,4-difluorobenzene is 309 nM-1, the corresponding kcat is 2.91 + 10-3 min-1. A di-substituted hammerhead ribozyme carrying one of each modification has also been synthesized. For further stabilization of the ribozyme/substrate complex, 2'-(β-aminoethoxy)-modified fluorinated nucleosides were developed.
IT 689221-93-0
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(effect of incorporation into hammerhead ribozyme; effect of universal fluorinated nucleobases on the catalytic activity of ribozymes)
RN 689221-93-0 CAPLUS
CN 1H-Benzimidazole, 1-[5-O-[bis(4-methoxyphenyl)phenylmethyl]-3-O-[[bis(1-methylethyl)amino](2-cyanoethoxy)phosphino]-2-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-β-D-ribofuranosyl]-4,6-difluoro- (9CI) (CA INDEX NAME)

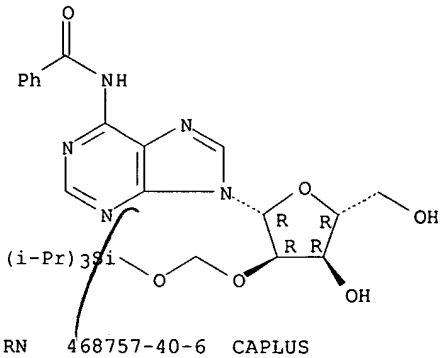
Absolute stereochemistry.



RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

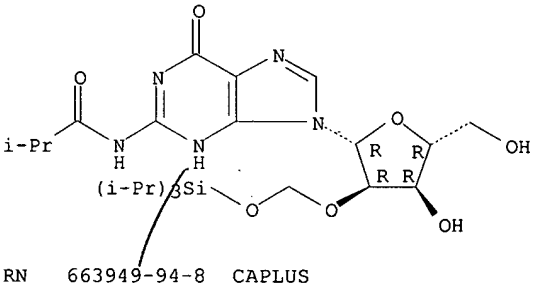
L4 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:714332 CAPLUS
DN 140:217916
TI Synthesis of 2'-O-Substituted Ribonucleosides
AU Serebryany, V.; Beigelman, L.
CS Ribozyme Pharmaceuticals Inc., Boulder, CO, 80301, USA
SO Nucleosides, Nucleotides & Nucleic Acids (2003), 22(5-8), 1007-1009
CODEN: NNNAFY; ISSN: 1525-7770
PB Marcel Dekker, Inc.
DT Journal
LA English
OS CASREACT 140:217916
AB An efficient synthesis of 2'-O-substituted ribonucleosides, including 2'-O-TBDMS and 2'-O-TOM protected as well as 2'-O-Me and 2'-O-allyl derivs. is presented. Di-t-butylsilylene group was employed for simultaneous protection of 3'- and 5'-hydroxyl functions of nucleoside on the first step. Subsequent silylation or alkylation of free 2'-OH followed by introduction of suitable protection on the base moiety and removal of cyclic silyl protection gave target compds. in a high yield.
IT 468757-39-3P 468757-40-6P 663949-94-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of 2'-O-substituted ribonucleosides using di-t-butylsilylene protection at the 5' and 3'-positions)
RN 468757-39-3 CAPLUS
CN Adenosine, N-benzoyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



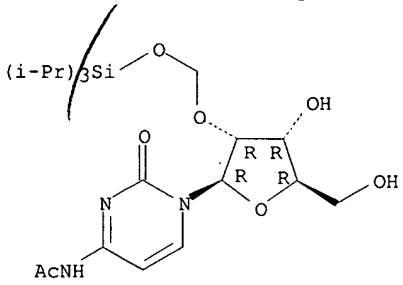
RN 468757-40-6 CAPLUS
CN Guanosine, N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 663949-94-8 CAPLUS
CN Cytidine, N-acetyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2003:620421 CAPLUS
DN 140:199568
TI The synthesis of 2'-O-[(tri-isopropylsilyl)oxy]methyl (TOM) phosphoramidites of methylated ribonucleosides (m1G, m2G, m22G, m1I, m3U, m4C, m6A, m62A) for use in automated RNA solid-phase synthesis
AU Hoebartner, Claudia; Kreutz, Christoph; Flecker, Elke; Ottenschlaeger, Elke; Pils, Werner; Grubmayr, Karl; Micura, Ronald
CS Institute of Organic Chemistry, University of Innsbruck, Austria
SO Monatshefte fuer Chemie (2003), 134(6), 851-873
CODEN: MOCMB7; ISSN: 0026-9247
PB Springer-Verlag Wien
DT Journal
LA English
OS CASREACT 140:199568
AB The straightforward synthesis of eight methylated ribonucleoside phosphoramidites is described. These building blocks allow for

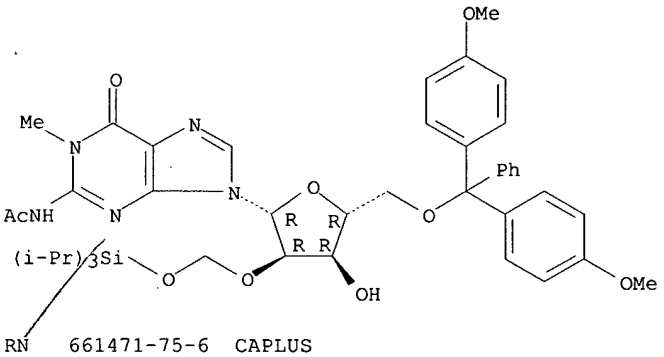
incorporation of the naturally occurring nucleosides 1-methylguanosine (m1G), N2-methylguanosine (m2G), N2,N2-dimethylguanosine (m22G), 1-methylinosine (m1I), 3-methyluridine (m3U), N4-methylcytidine (m4C), N6-methyladenosine (m6A), and N6,N6-dimethyladenosine (m62A) into oligoribonucleotides by automated RNA solid-phase synthesis. In all cases, the ribose 2'-hydroxyl group of the building blocks is masked by the recently introduced [(tri-isopropylsilyl)oxy]methyl (TOM) group.

IT 661471-73-4P 661471-75-6P 661471-78-9P
661471-80-3P 661471-82-5P 661471-84-7P
661471-85-8P 661471-87-0P 661471-90-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of 2'-O-[(triisopropylsilyl)oxy]methyl phosphoramidites of methylated ribonucleosides as synthons for use in automated RNA solid phase synthesis)

RN 661471-73-4 CAPLUS

CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-1-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

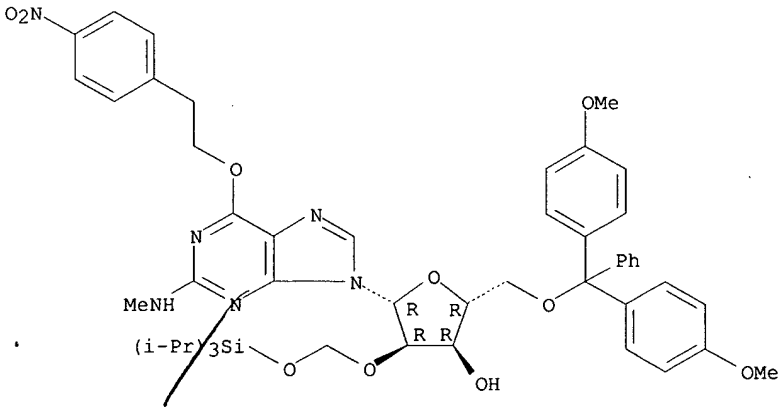
Absolute stereochemistry.



RN 661471-75-6 CAPLUS

CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-methyl-6-O-[2-(4-nitrophenyl)ethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

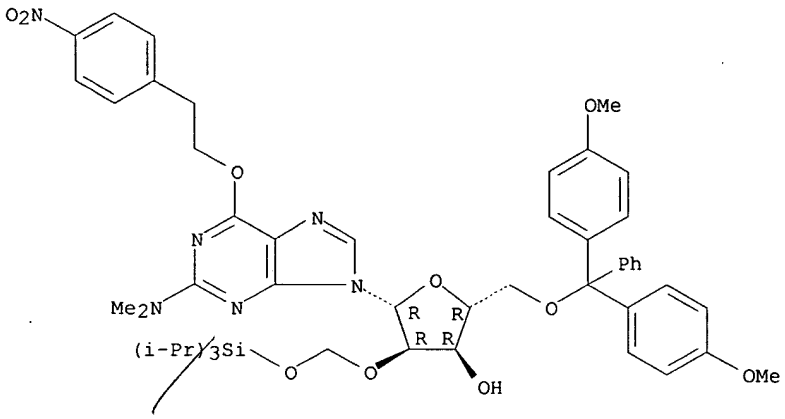
Absolute stereochemistry.



RN 661471-78-9 CAPLUS

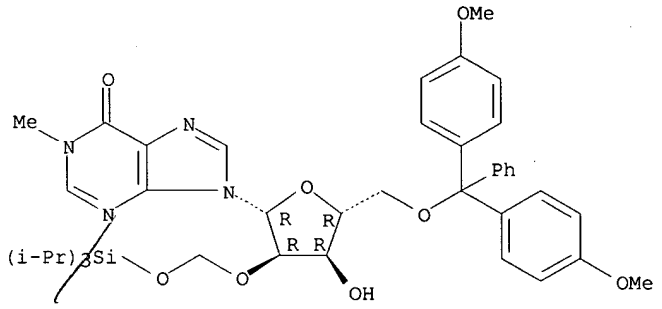
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N,N-dimethyl-6-O-[2-(4-nitrophenyl)ethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



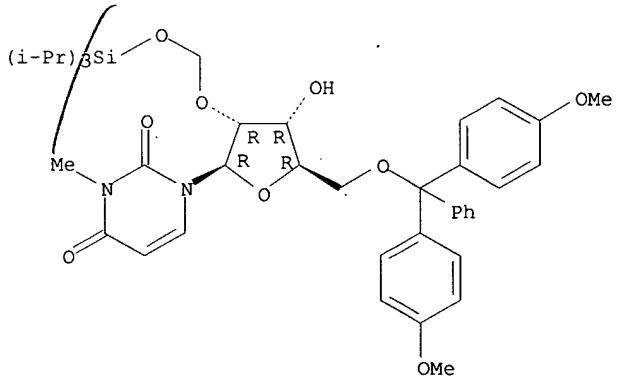
RN 661471-80-3 CAPLUS
CN Inosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-1-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



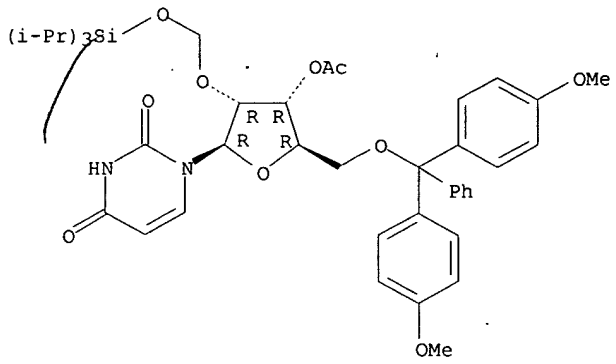
RN 661471-82-5 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-3-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



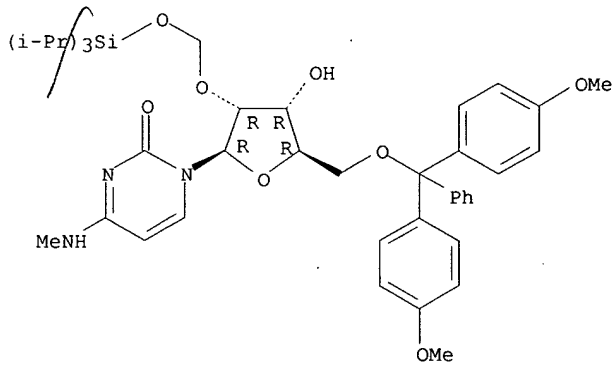
RN 661471-84-7 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



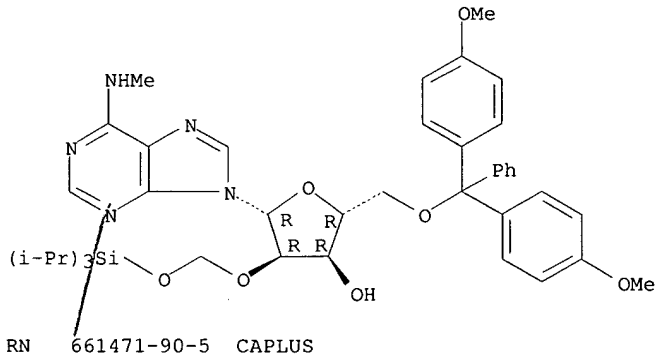
RN 661471-85-8 CAPLUS
CN Cytidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



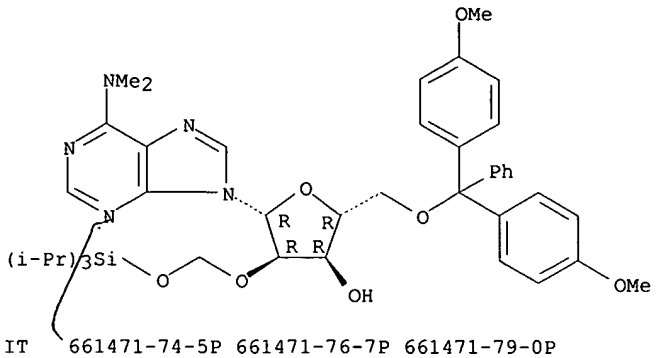
RN 661471-87-0 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 661471-90-5 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N,N-dimethyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

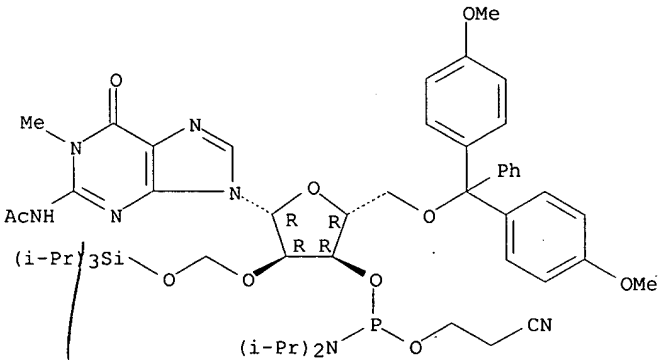
Absolute stereochemistry.



IT 661471-74-5P 661471-76-7P 661471-79-0P
661471-81-4P 661471-83-6P 661471-86-9P
661471-88-1P 661471-91-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of 2'-O-[(triisopropylsilyl)oxy]methyl phosphoramidites of methylated ribonucleosides as synthons for use in automated RNA solid phase synthesis)

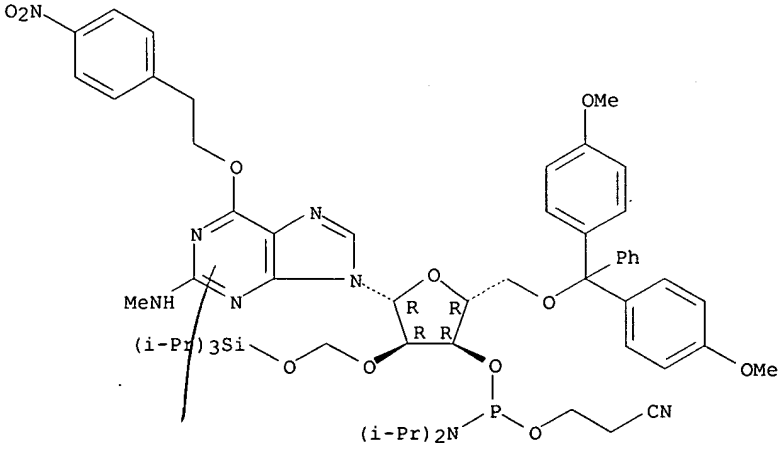
RN 661471-74-5 CAPLUS
CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-1-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



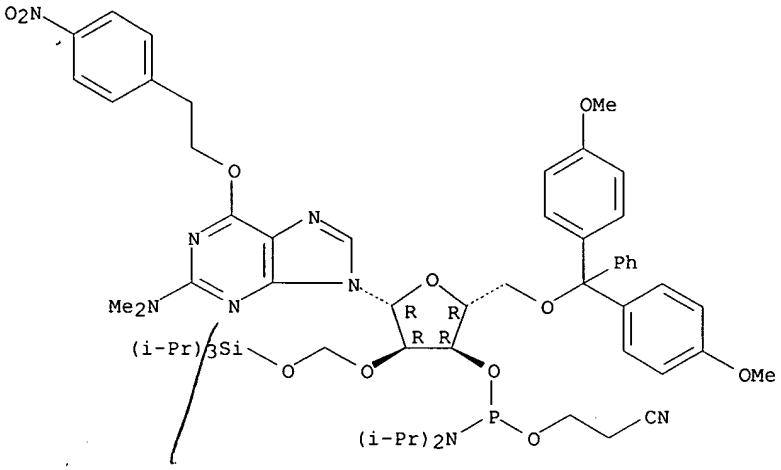
RN 661471-76-7 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-methyl-6-O-[2-(4-nitrophenyl)ethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



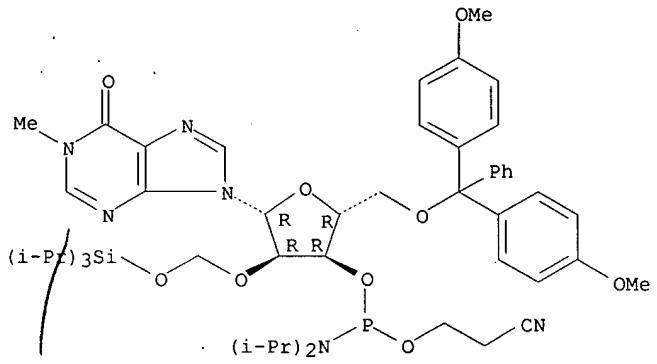
RN 661471-79-0 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N,N-dimethyl-6-O-[2-(4-nitrophenyl)ethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



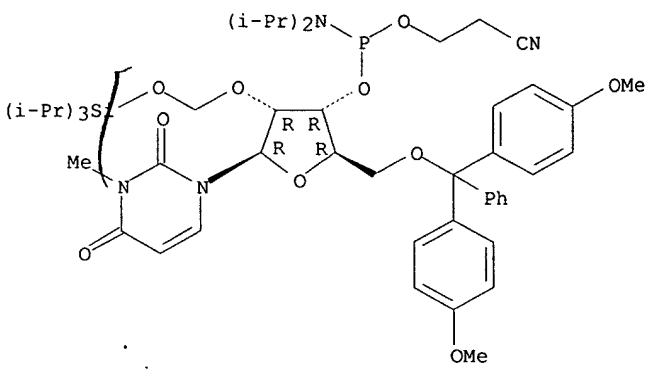
RN 661471-81-4 CAPLUS
CN Inosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-1-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



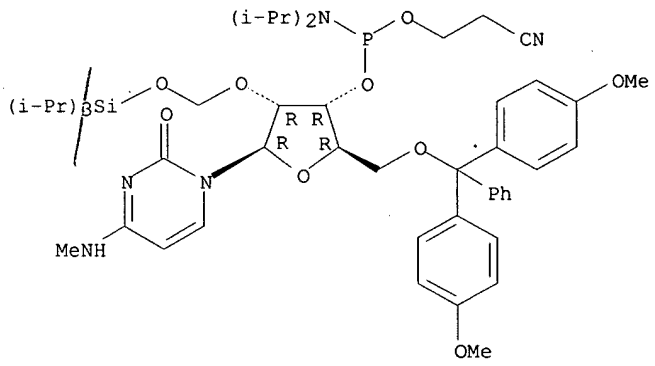
RN 661471-83-6 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-3-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



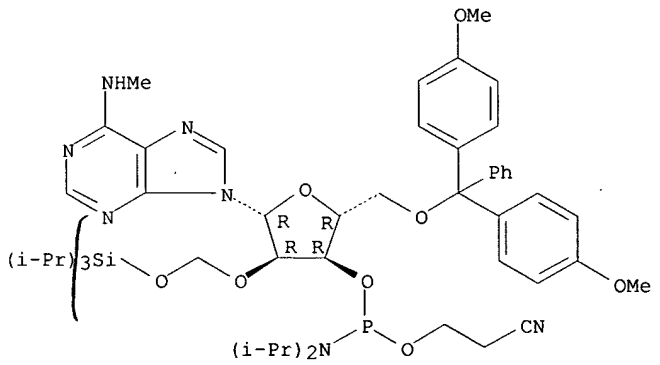
RN 661471-86-9 CAPLUS
CN Cytidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



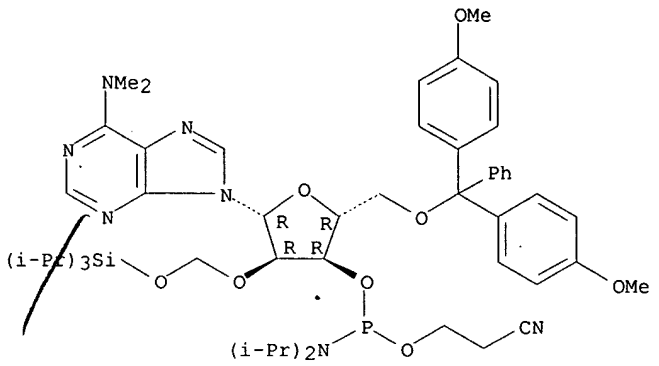
RN 661471-88-1 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-methyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 661471-91-6 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N,N-dimethyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

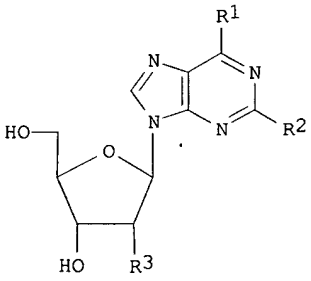


RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2002:794206 CAPLUS
DN 137:295195
TI Methods for synthesizing nucleosides, nucleoside derivatives and non-nucleoside phosphoramidites and succinates
IN Beigelman, Leonid; Karpeisky, Alexander; Serebryany, Vladmir; Haeberli, Peter; Sweedler, David
PA USA
SO U.S. Pat. Appl. Publ., 59 pp., Cont.-in-part of U.S. Ser. No. 944,554.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2002150936	A1	20021017	US 2002-43951	20020111
	US 2002120129	A1	20020829	US 2001-944554	20010831
	US 6686463	B2	20040203		
	US 2005059817	A1	20050317	US 2004-947954	20040923
PRAI	US 2000-230057P	P	20000901		
	US 2001-286571P	P	20010425		
	US 2001-944554	A2	20010831		
	US 2002-43951	B1	20020111		

OS CASREACT 137:295195
GI



I

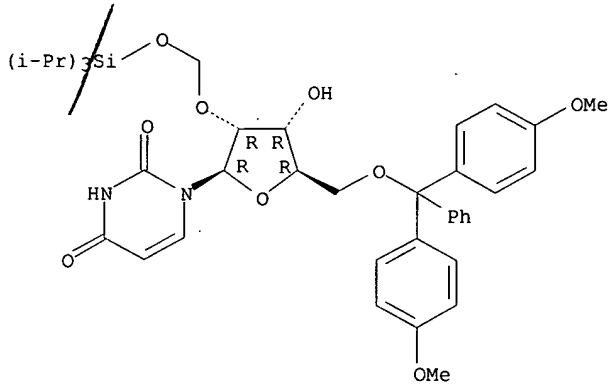
AB The present invention provides methods for the chemical synthesis of nucleosides I wherein R1 and R2 are independently hydrogen, substituted amine, aminoalkyl, fluoro or chloro; R3 is independently alkyl, alkoxyalkyl, alkylthioalkyl, cyanoalkyl, or arylalkyl optionally substituted with up to three groups that are independently halogen, alkoxy, nitro, or alkyl; and derivs. thereof, including 2'-amino, 2'-N-phthaloyl, 2'-O-Me, 2'-O-silyl, 2'-OH nucleosides, C-nucleosides, nucleoside phosphoramidites, C-nucleoside phosphoramidites, and non-nucleoside derivs. The invention provides a universal method for the synthesis of 2'-deoxy-2'-aminopurine and pyrimidine nucleosides and

C-nucleosides that employs fewer synthetic steps, avoids the use of azides, and which concomitantly introduces N-phthaloyl protection of the 2'-amine. Thus, 5'-O-DMT-2'-deoxy-2'-N1-phthaloyl-N4-acetylcytidine 3'-O-(2-cyanoethyl-N,N-diisopropylphosphoramidite) was prepared

IT 220230-58-0P 220230-62-6P 312709-93-6P
468757-39-3P 468757-40-6P 468757-56-4P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(methods for synthesizing nucleosides, nucleoside derivs., and non-nucleoside phosphoramidites and succinates)

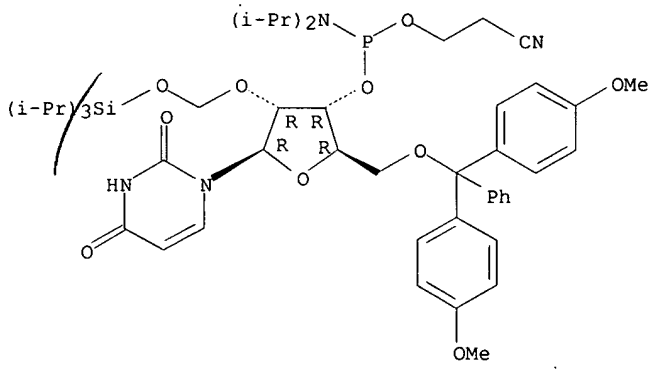
RN 220230-58-0 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



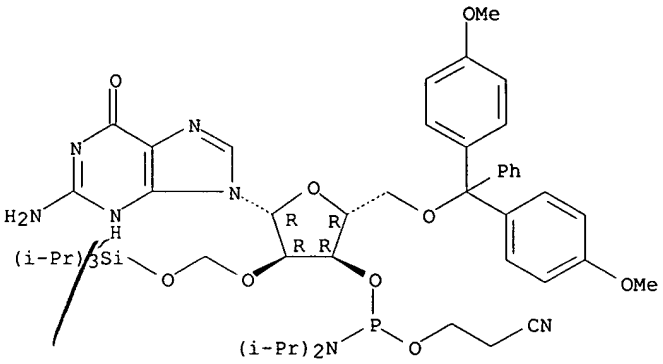
RN 220230-62-6 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



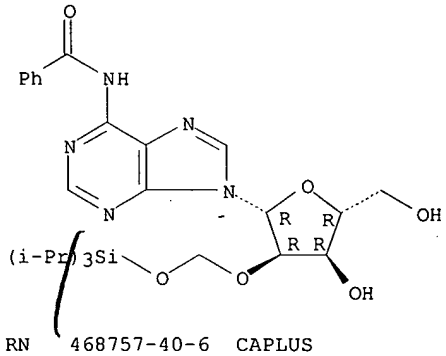
RN 312709-93-6 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



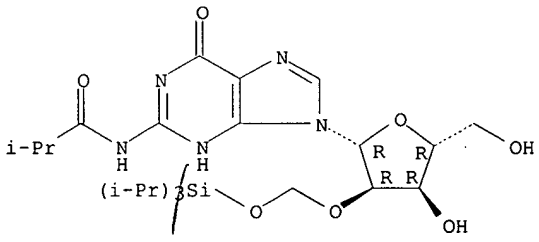
RN 468757-39-3 CAPLUS
CN Adenosine, N-benzoyl-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



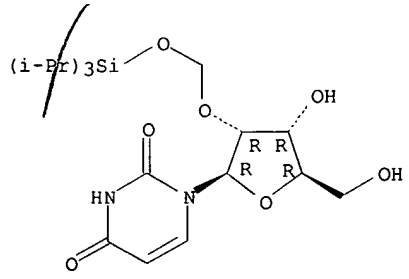
RN 468757-40-6 CAPLUS
CN Guanosine, N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 468757-56-4 CAPLUS
CN Uridine, 2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

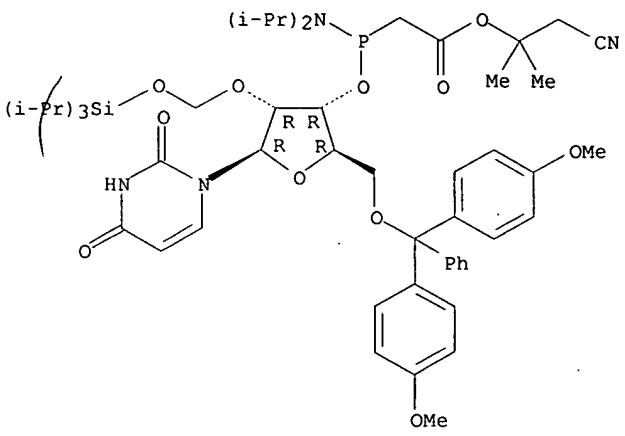


L4 ANSWER 14 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2002:314950 CAPLUS
DN 136:325787
TI Preparation of oligodeoxyribonucleotide phosphinoamidite carboxylates and analogs having reduced internucleotide charge and enhanced nuclease resistance
IN Dellinger, Douglas J.
PA USA
SO PCT Int. Appl., 104 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002032912	A2	20020425	WO 2001-US32465	20011016
	WO 2002032912	A3	20030313		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 6693187	B1	20040217	US 2000-691824	20001017
	EP 1334111	A2	20030813	EP 2001-983160	20011016
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	US 2004116687	A1	20040617	US 2003-721301	20031124
	US 7067641	B2	20060627		
	US 2006293511	A1	20061228	US 2006-431373	20060509
PRAI	US 2000-691824	A	20001017		
	WO 2001-US32465	W	20011016		
	US 2003-721301	A3	20031124		

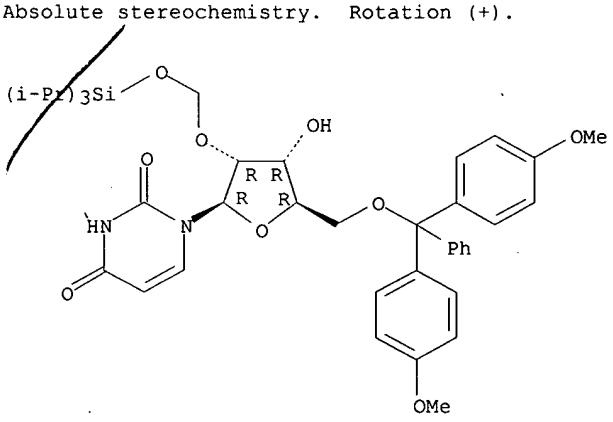
OS MARPAT 136:325787
AB Phosphinoamidite carboxylates and analogs are provided that have the structure of formula R1-X-C(:Z)-(Y)n-P(R4)NR2R3 (I) were prepared wherein, R1 is hydrogen, protecting group, hydrocarbyl, substituted hydrocarbyl, heteroatom-containing hydrocarbyl or substituted heteroatom-containing hydrocarbyl; R2 and R3 are independently hydrocarbyl, substituted hydrocarbyl, heteroatom-containing hydrocarbyl and substituted heteroatom-containing hydrocarbyl, or R2 and R3 are linked to form a substituted or unsubstituted, five- or six-membered nitrogen-containing heterocycle; R4 is NR5R6, halogen, DL; wherein R5 and R6 are independently hydrocarbyl, substituted hydrocarbyl, heteroatom-containing hydrocarbyl and substituted heteroatom-containing hydrocarbyl, or R5 and R6 are linked to form a substituted or unsubstituted, five- or six-membered nitrogen-containing heterocycle, D is O, S or NH, and L is a heteroatom-protecting group, unsubstituted hydrocarbyl, substituted hydrocarbyl, heteroatom-containing hydrocarbyl, or substituted heteroatom-containing hydrocarbyl; X is O, S, NH; n is zero or 1; Y is alkyl, heterocycle; Z is O, S, NH. The compds. are useful as phosphitylating agents, e.g., in the phosphitylation of 3' and 5' hydroxyl groups of nucleosides and oligonucleotides. Also provided are phosphonocarboxylate and H-phosphonite carboxylate analogs of the compds. of formula I. The compds. enable synthesis of phosphinocarboxylate and phosphonocarboxylate oligonucleotides having reduced internucleotide charge and enhanced nuclease resistance.
IT 411234-27-0P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of oligodeoxyribonucleotide phosphinoamidite carboxylates and analogs having reduced internucleotide charge and enhanced nuclease resistance)
RN 411234-27-0 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[P-[2-(2-cyano-1,1-dimethylethoxy)-2-oxoethyl]-N,N-bis(1-methylethyl)phosphonamidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 220230-58-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of oligodeoxyribonucleotide phosphinoamidite carboxylates and analogs having reduced internucleotide charge and enhanced nuclease resistance)
RN 220230-58-0 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L4 ANSWER 15 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2002:100143 CAPLUS
DN 136:355418
TI Reliable chemical synthesis of oligoribonucleotides (RNA) with 2'-O-[(triisopropylsilyl)oxy]methyl(2'-O-tom)-protected phosphoramidites
AU Pitsch, Stefan; Weiss, Patrick A.; Jenny, Luzi; Stutz, Alfred; Wu, Xiaolin
CS Laboratorium fur Organische Chemie, ETHZ, Zurich, CH-8092, Switz.
SO Helvetica Chimica Acta (2001), 84(12), 3773-3795
CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta
DT Journal
LA English
OS CASREACT 136:355418
AB A method for the introduction of the 2'-O-[(triisopropylsilyl)oxy]methyl (=tom) group into N-acetylated, 5'-O-dimethoxytritylated ribonucleosides is presented. The corresponding 2'-O-tom-protected phosphoramidite building blocks were obtained in pure form and were successfully employed for the routine synthesis of oligoribonucleotides on DNA synthesizers. Under DNA coupling conditions (2.5 min coupling time for a 1.5-μmol synthesis scale) and with 5-(benzylthio)-1H-tetrazole (BTT) as activator. 2'-O-tom-protected phosphoramidites exhibited average coupling yields >99.4%. The combination of N-acetyl and 2'-O-tom protecting groups allowed a reliable and complete two-step deprotection, first with MeNH2 in EtOH/H2O and then with Bu4NF in THF, without concomitant destruction of the product

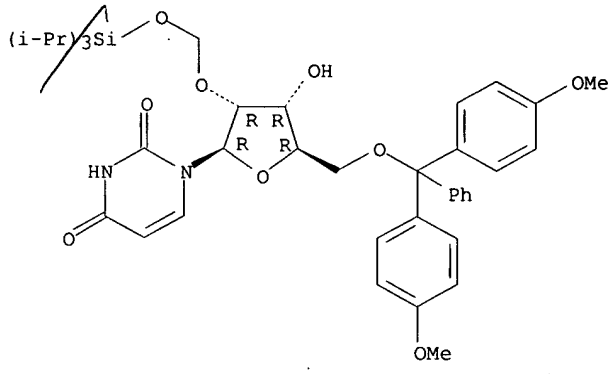
RNA sequences.

IT 220230-58-0P 220230-62-6P 253586-12-8P
253586-13-9P 253586-14-0P 253586-21-9P
253586-22-0P 253586-23-1P 415707-19-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of using [(triisopropylsilyl)oxy]methyl 2'-O-protecting group)

RN 220230-58-0 CAPLUS

CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

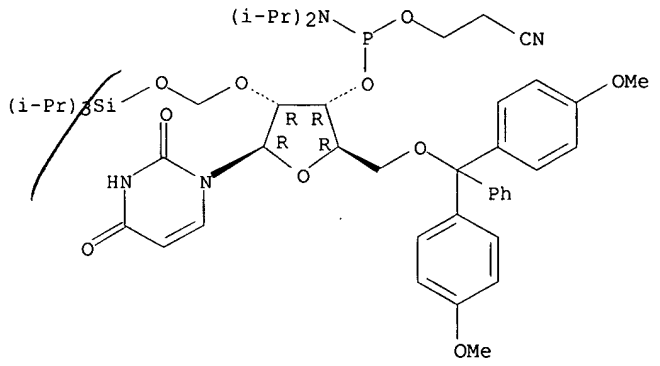
Absolute stereochemistry. Rotation (+).



RN 220230-62-6 CAPLUS

CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

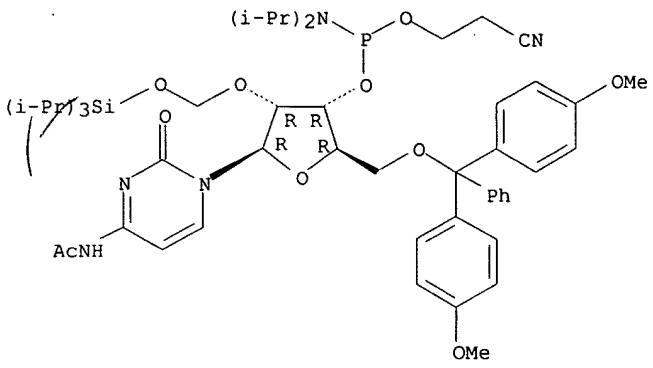
Absolute stereochemistry.



RN 253586-12-8 CAPLUS

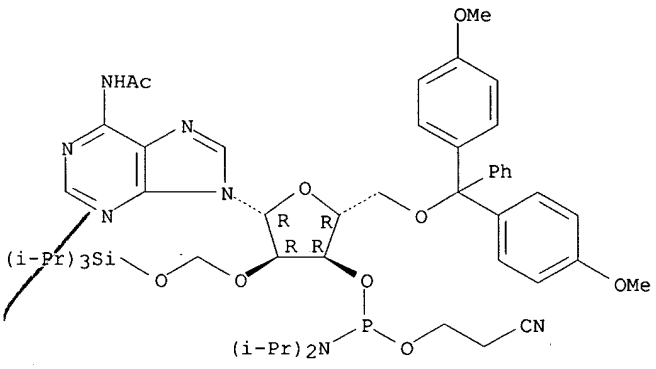
CN Cytidine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



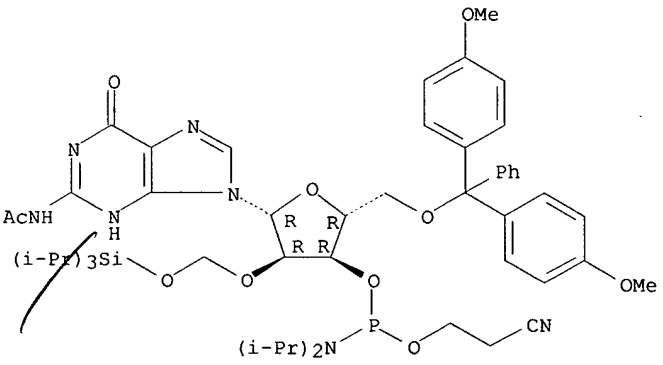
RN 253586-13-9 CAPLUS
CN Adenosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



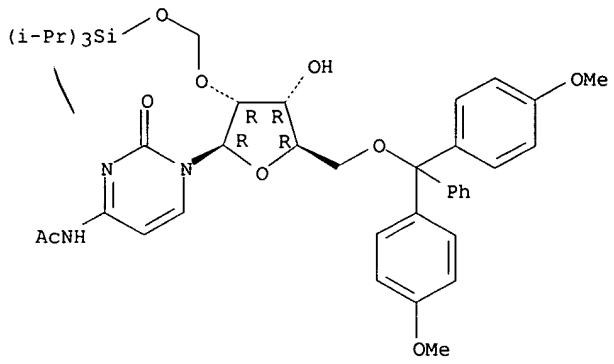
RN 253586-14-0 CAPLUS
CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



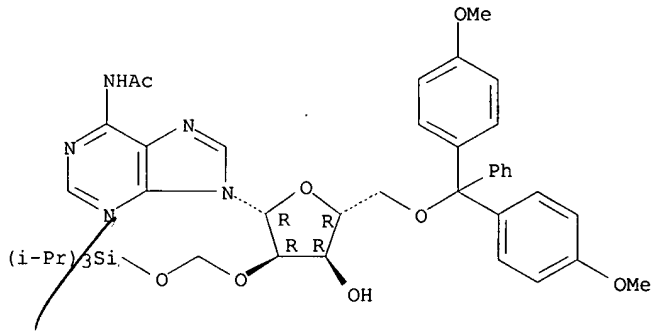
RN 253586-21-9 CAPLUS
CN Cytidine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



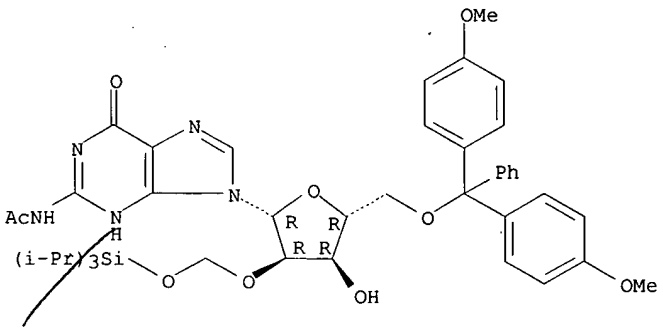
RN 253586-22-0 CAPLUS
CN Adenosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



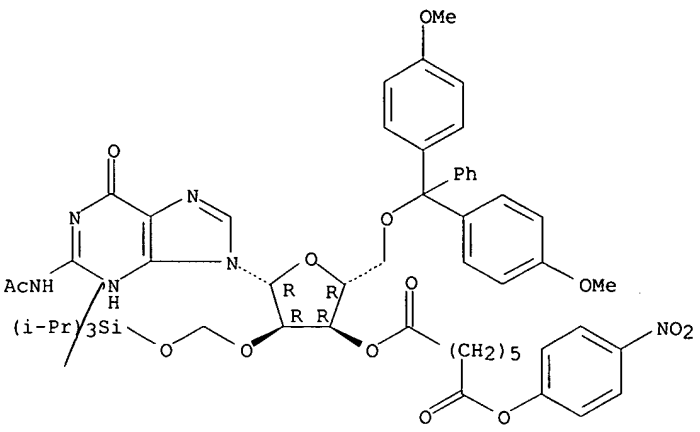
RN 253586-23-1 CAPLUS
CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 415707-19-6 CAPLUS
CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-(4-nitrophenyl heptanedioate) (9CI) (CA INDEX NAME)

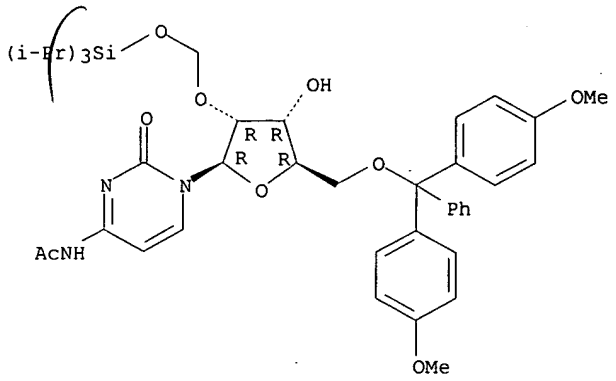
Absolute stereochemistry.



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

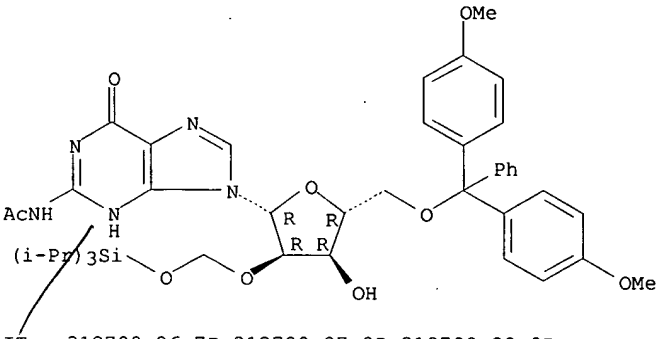
L4 ANSWER 16 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2000:748508 CAPLUS
DN 134:42377
TI Novel fluoride-labile nucleobase-protecting groups for the synthesis of 3'(2')-O-amino-acylated RNA sequences
AU Stutz, Alfred; Hobartner, Claudia; Pitsch, Stefan
CS Laboratorium fur Organische Chemie, ETH-Zentrum, Zurich, CH-8092, Switz.
SO Helvetica Chimica Acta (2000), 83(9), 2477-2503
CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta
DT Journal
LA English
OS CASREACT 134:42377
AB With the aim to develop a general approach to a total synthesis of amino-acylated t-RNAs and analogs, we describe the synthesis of stabilized, amino-acylated RNA fragments, which, upon ligation, could lead to amino-acylated t-RNA structures. Novel RNA phosphoramidites with fluoride-labile 2'-O-[(triisopropylsilyl)-oxy]methyl (=tom) sugar-protecting and N-{{2-[(triisopropylsilyl)oxy]benzyl}oxy}carbonyl (=tboc) base-protecting groups were prepared, as well as a solid support containing an immobilized N6-tboc-protected adenosine with an orthogonal (photolabile) 2'-O-[(S)-1-(2-nitrophenyl)ethoxy]methyl (=(S)-npeom) group. From these building blocks, a hexameric oligoribonucleotide was prepared by automated synthesis under standard conditions. After the detachment from the solid support, the resulting fully protected sequence was amino-acylated with L-phenylalanine derivs. carrying photolabile N-protecting groups. Upon removal of the fluoride-labile sugar- and nucleobase-protecting groups, the still stabilized, partially with the photolabile group protected precursors of an amino-acylated RNA sequence were obtained. Photolysis under mild conditions resulted in the efficient formation of the 3'(2')-O-amino-acylated RNA sequence. Addnl., we carried out model investigations concerning the stability of ester bonds of amino-acylated ribonucleotide derivs. under acidic conditions and established conditions for the purification and handling of 3'(2')-O-amino-acylated RNA sequences and their stabilized precursors.
IT 253586-21-9 253586-23-1
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of fluoride labile nucleobase protecting groups for the synthesis of 3'(2')-O-amino-acylated RNA sequences)
RN 253586-21-9 CAPLUS
CN Cytidine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



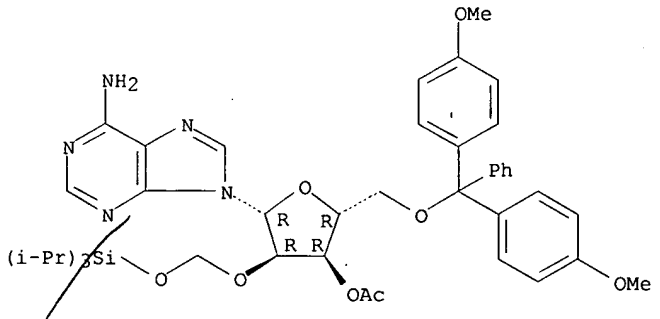
RN 253586-23-1 CAPLUS
CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



IT 312709-86-7P 312709-87-8P 312709-88-9P
312709-90-3P 312709-91-4P 312709-92-5P
312709-93-6P 312709-94-7P 312709-95-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of fluoride labile nucleobase protecting groups for the synthesis of 3'(2')-O-amino-acylated RNA sequences)
RN 312709-86-7 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-acetate (9CI) (CA INDEX NAME)

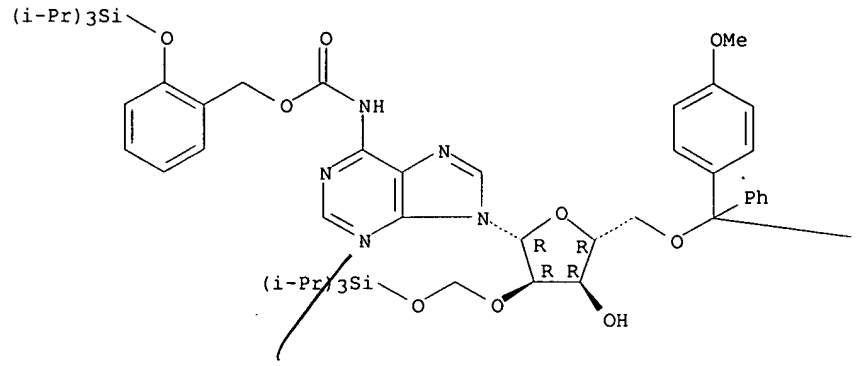
Absolute stereochemistry.



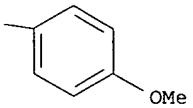
RN 312709-87-8 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-N-[[[2-[[tris(1-methylethyl)silyl]oxy]phenyl]methoxy]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



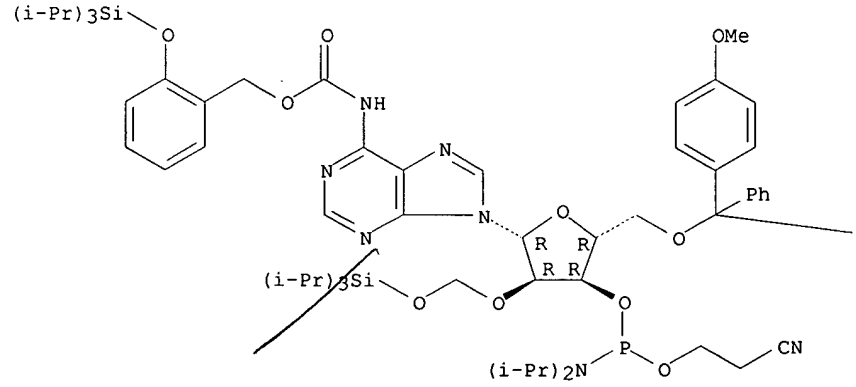
PAGE 1-B



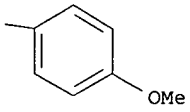
RN 312709-88-9 CAPLUS
CN Adenosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-N-[[[2-[[tris(1-methylethyl)silyl]oxy]phenyl]methoxy]carbonyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



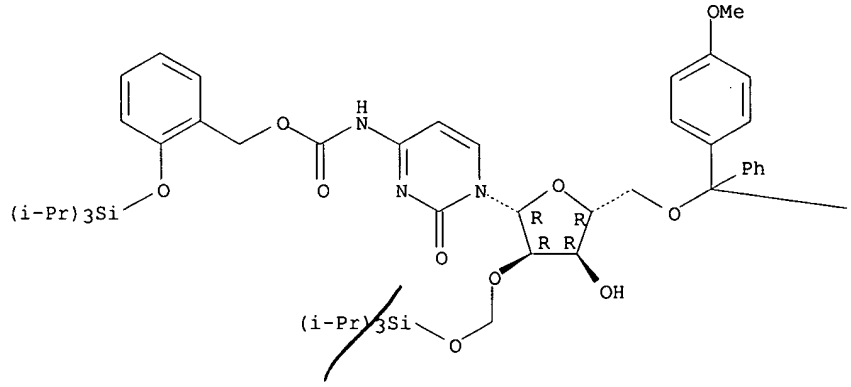
PAGE 1-B



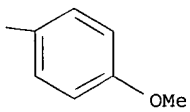
RN 312709-90-3 CAPLUS
CN Cytidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-N-[[[2-[[tris(1-methylethyl)silyl]oxy]phenyl]methoxy]carbonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



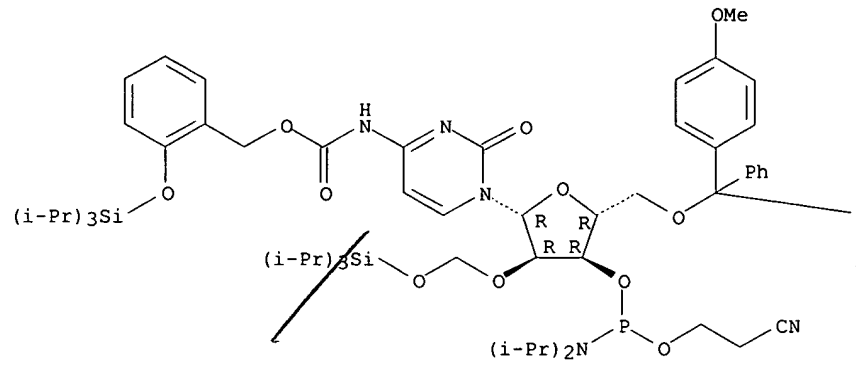
PAGE 1-B



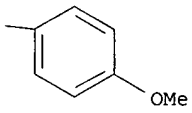
RN 312709-91-4 CAPLUS
CN Cytidine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-N-[[[2-[[tris(1-methylethyl)silyl]oxy]phenyl]methoxy]carbonyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

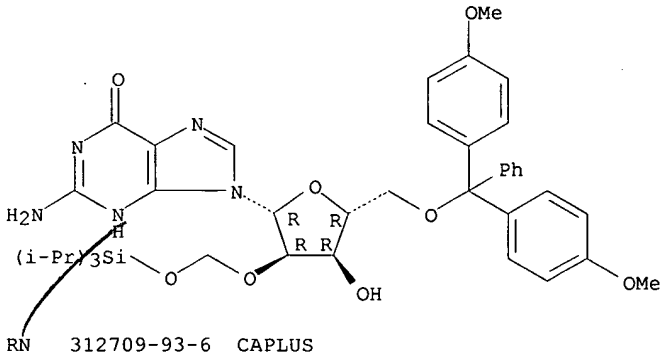


PAGE 1-B



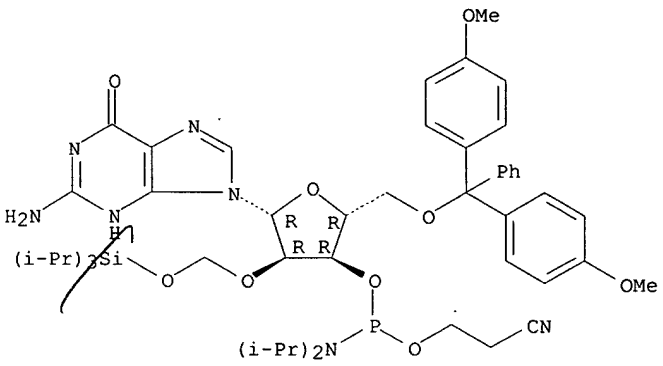
RN 312709-92-5 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



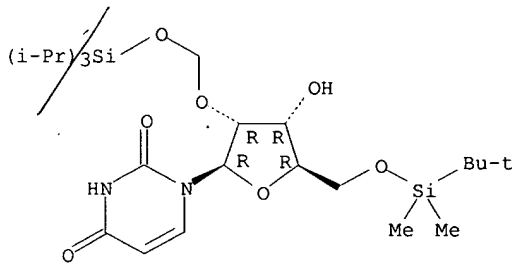
RN 312709-93-6 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



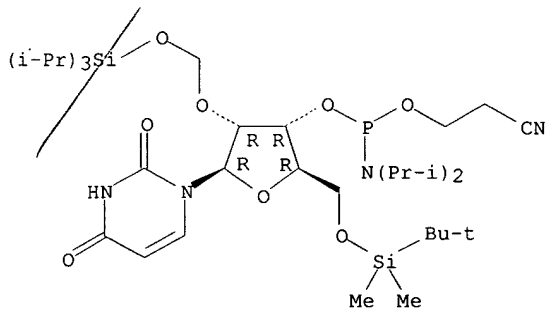
RN 312709-94-7 CAPLUS
CN Uridine, 5'-O-[(1,1-dimethylethyl)dimethylsilyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



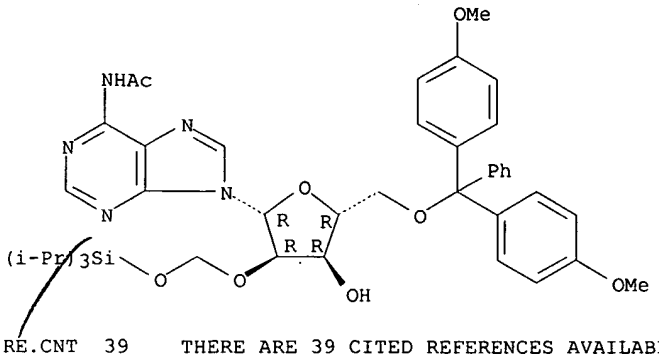
RN 312709-95-8 CAPLUS
CN Uridine, 5'-O-[(1,1-dimethylethyl)dimethylsilyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 253586-22-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of fluoride labile nucleobase protecting groups for the synthesis of 3'(2')-O-amino-acylated RNA sequences kinetics)
RN 253586-22-0 CAPLUS
CN Adenosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

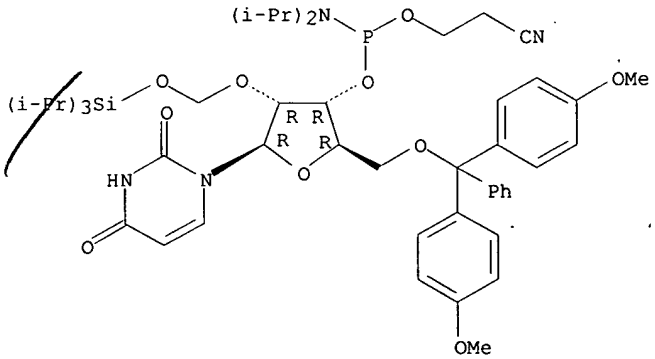
Absolute stereochemistry. Rotation (+).



RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 17 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1999:693437 CAPLUS
DN 132:208085
TI Fast and reliable automated synthesis of RNA and partially 2'-O-protected precursors ("caged RNA") based on two novel, orthogonal 2'-O-protecting groups
AU Pitsch, Stefan; Weiss, Patrick A.; Wu, Xiaolin; Ackermann, Damian; Honegger, Thomas
CS Laboratorium fur Organische Chemie, ETH-Zentrum, Zurich, CH-8092, Switz.
SO Helvetica Chimica Acta (1999), 82(10), 1753-1761
CODEN: HCACAV; ISSN: 0018-019X
PB Verlag Helvetica Chimica Acta
DT Journal
LA English
OS CASREACT 132:208085
AB Two sets of RNA phosphoramidites, carrying the (fluoride-labile) 2'-O-[(triisopropylsilyl)oxy]methyl (tom) group and the (photolabile) [(R)-1-(2-nitrophenyl)ethoxy]methyl ((R)-npeom) group, were prepared The two protecting groups were completely orthogonal to each other. Three ribozyme-substrate constructs, protected each by a (R)-npeom group, were synthesized; on photolysis, efficient cleavage of this remaining protecting group occurred. It could be demonstrated that the presence of one (R)-npeom group within a RNA strand has only a minor influence on the pairing properties of corresponding duplexes.
IT 220230-62-6 253586-12-8 253586-13-9
253586-14-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(fast and reliable automated synthesis of RNA and partially protected precursors ("caged RNA") based on two novel orthogonal 2'-O-protecting groups)
RN 220230-62-6 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-{[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

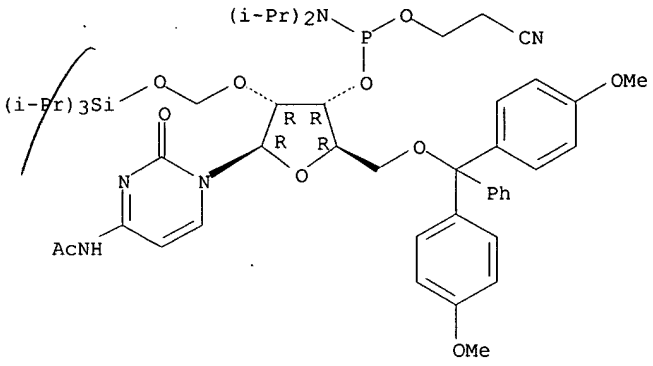
Absolute stereochemistry.



RN 253586-12-8 CAPLUS
CN Cytidine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-

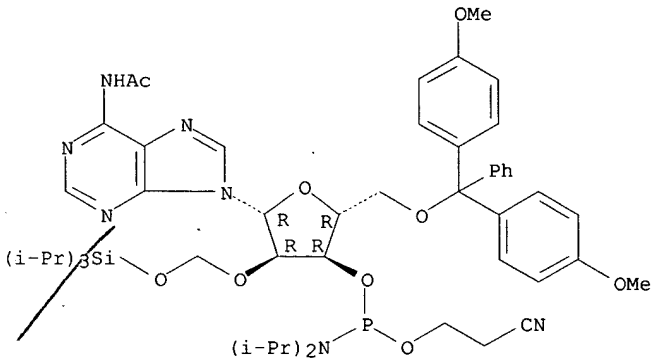
methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



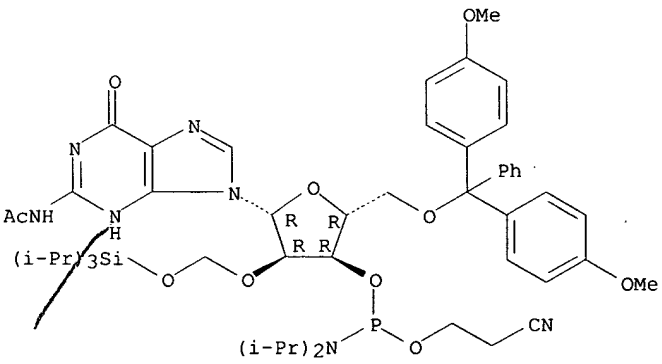
RN 253586-13-9 CAPLUS
CN Adenosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 253586-14-0 CAPLUS
CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



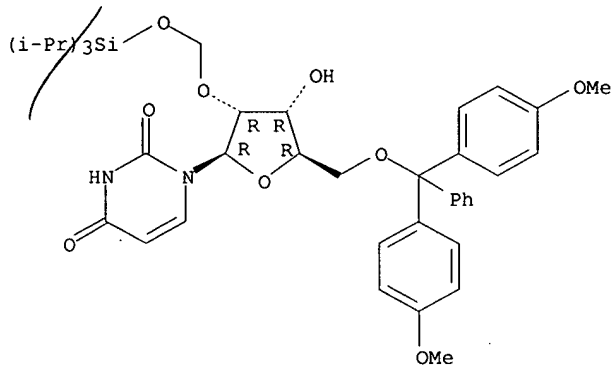
IT 220230-58-0P 253586-21-9P 253586-22-0P
253586-23-1P

McIntosh

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(fast and reliable automated synthesis of RNA and partially protected precursors ("caged RNA") based on two novel orthogonal 2'-O-protecting groups)

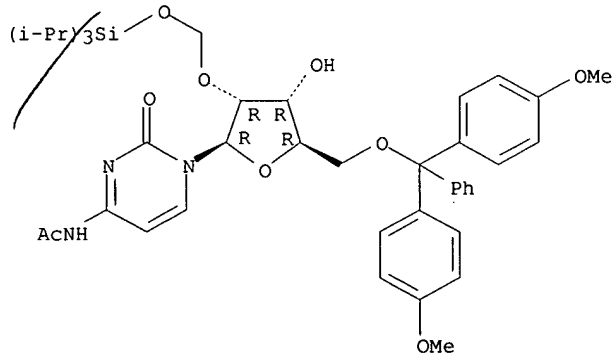
RN 220230-58-0 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



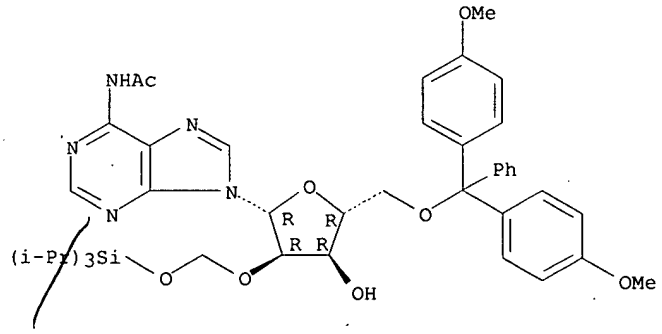
RN 253586-21-9 CAPLUS
CN Cytidine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 253586-22-0 CAPLUS
CN Adenosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

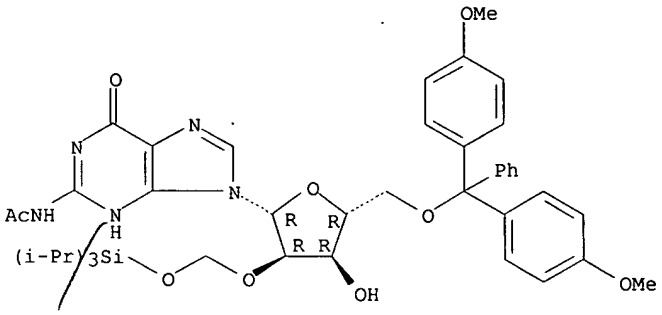
Absolute stereochemistry. Rotation (+).



RN 253586-23-1 CAPLUS

CN Guanosine, N-acetyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

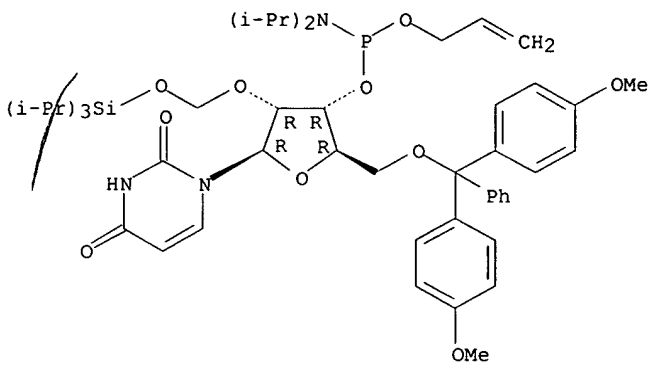
Absolute stereochemistry. Rotation (+).



RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 18 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1999:442449 CAPLUS
DN 131:130219
TI Cyclic oligoribonucleotides (RNA) by solid-phase synthesis
AU Micura, Ronald
CS Laboratorium fur Organische Chemie der Eidgenossischen Technischen Hochschule Universitatstrasse 16, Zurich, CH-8092, Switz.
SO Chemistry--A European Journal (1999), 5(7), 2077-2082
CODEN: CEUJED; ISSN: 0947-6539
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
AB A novel solid-phase synthesis of small- to medium-sized cyclic RNA oligonucleotides is presented. A major advantage of the approach is the lack of restrictions on the sequence variety with respect to the four standard bases adenine, cytosine, guanine, and uracil. This has been demonstrated for cycles containing 2 to 21 nucleotide units. The approach allows fully automated assembly, and is related to a procedure known for the preparation of cyclic oligonucleotides in the DNA series. It combines standard phosphoramidite chemical for chain elongation and standard phosphotriester chemical for ring closure. A key aspect of the method is use of the novel 2'-O-triisopropylsilyloxymethyl (TOM) protected RNA phosphoramidites instead of the classic tert-butyldimethylsilyl (TBDMS) protected amidites. Furthermore, the design of the final cleavage step is selective only for correctly cyclized oligoribonucleotides. This results, after deprotection, in HPLC profiles in which the crude oligonucleotide is represented by the major peak with typically more than 80% of the integrated area. The ring closure itself proceeds with an average yield of 15%.
IT 232933-71-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(cyclic oligoribonucleotides RNA by solid phase synthesis using 2'-O-triisopropylsilyloxymethyl (TOM) protecting group)
RN 232933-71-0 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-propenyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 19 OF 19 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1999:139859 CAPLUS
DN 130:168606
TI Preparation of RNA using triple substituted silyloxymethyl-group as a protection-group of sugar moiety
IN Pitsch, Stefan; Weiss, Patrick A.; Jenny, Luzi
PA Switz.
SO PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9909044	A1	19990225	WO 1998-EP5215	19980817
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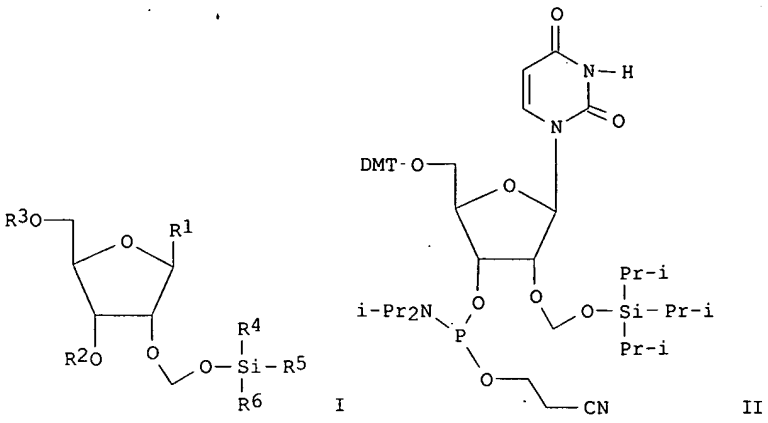
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	US 5986084	A	19991116	US 1997-965780	19971107
	AU 9895321	A	19990308	AU 1998-95321	19980817
	EP 1005478	A1	20000607	EP 1998-948841	19980817
	EP 1005478	B1	20030122		
	R: AT, BE, CH, DE, ES, FR, GB, IT, LI, LU, NL, SE, FI				
	JP 2001515087	T	20010918	JP 2000-509723	19980817
	AT 231518	T	20030215	AT 1998-948841	19980817
	ES 2191343	T3	20030901	ES 1998-948841	19980817
PRAI	CH 1997-1931	A	19970818		
	WO 1998-EP5215	W	19980817		

OS MARPAT 130:168606
GI



I II

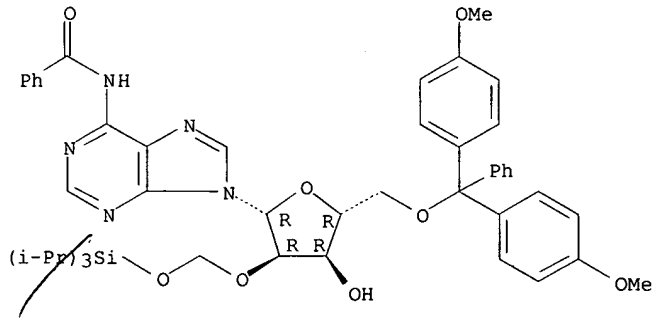
AB The ribonucleoside-derivs. serve for the synthesis of ribonucleic acids and comprise a triple substituted silyloxymethyl-group as a protection-group on the oxygen atom in 2'-position. The ribonucleoside-derivs. may be suitably protected on the nucleobase and on the oxygen in 5'-position also. The new protection-groups in 2'-O-position are superior to conventional such protection the groups as they are not subject to isomerization and give higher coupling yields. Ribonucleoside I whereby R1 is a base of the purine- or pyrimidine-family or a derivative of such a base, R2 is a proton or a substituted derivative of phosphonic acid, R3 is a proton or a suitable protection-group, R4, R5, R6 are advantageously three identical or different alkyl- or aryl-substituents which together comprise between 6 and 30 carbons atoms. were prepared and used in the synthesis of RNA. Thus, nucleoside phosphoramidite II was prepared and used in the synthesis of RNA.

IT 220230-55-7P 220230-56-8P 220230-57-9P
220230-58-0P 220230-59-1P 220230-60-4P
220230-61-5P 220230-62-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of RNA using triple substituted silyloxymethyl-group as a protection-group of sugar moiety)

RN 220230-55-7 CAPLUS

CN Adenosine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

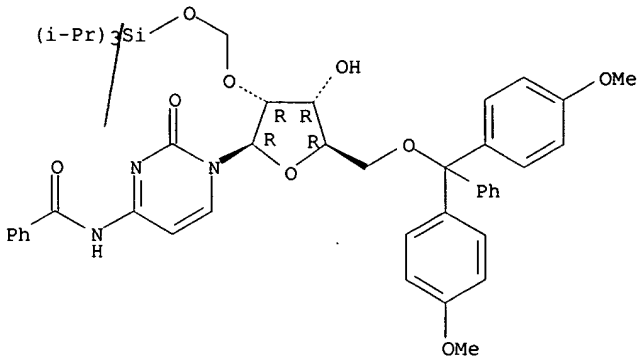
Absolute stereochemistry.



RN 220230-56-8 CAPLUS

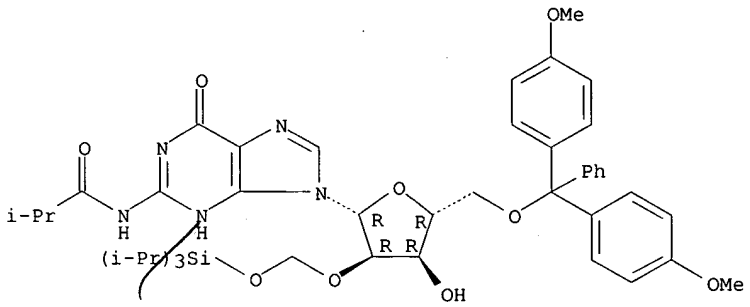
CN Cytidine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



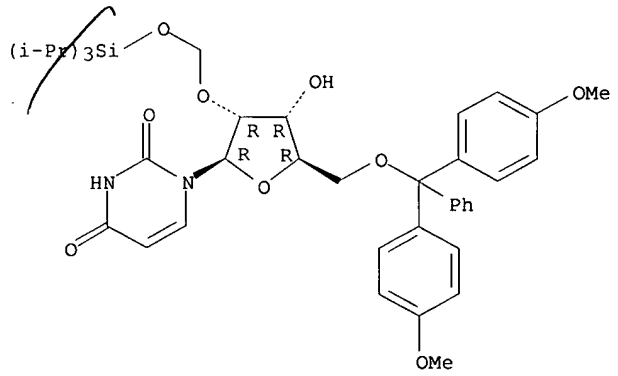
RN 220230-57-9 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



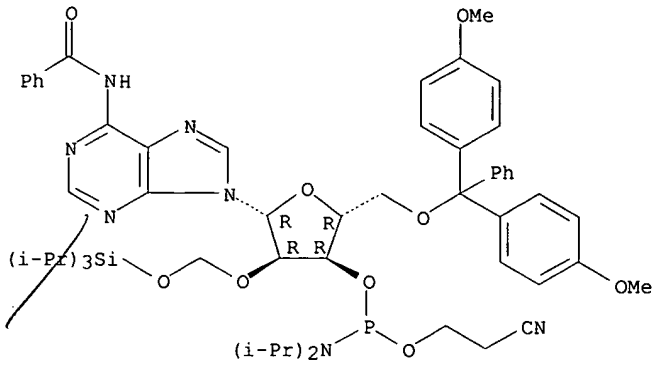
RN 220230-58-0 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



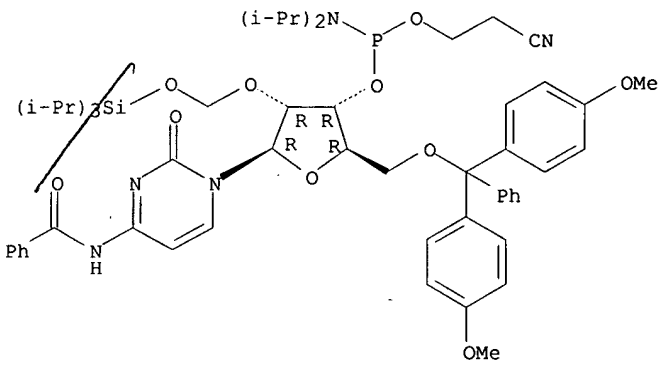
RN 220230-59-1 CAPLUS
CN Adenosine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



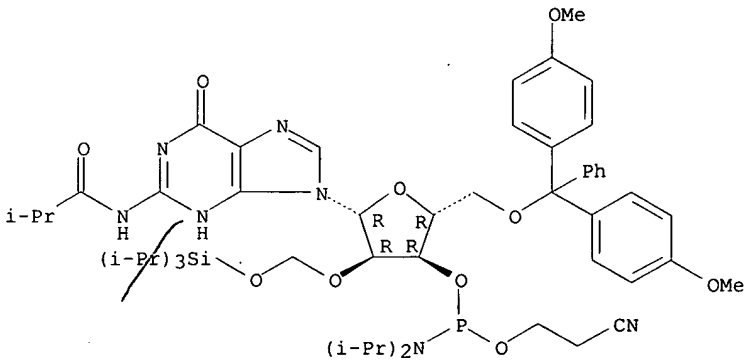
RN 220230-60-4 CAPLUS
CN Cytidine, N-benzoyl-5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



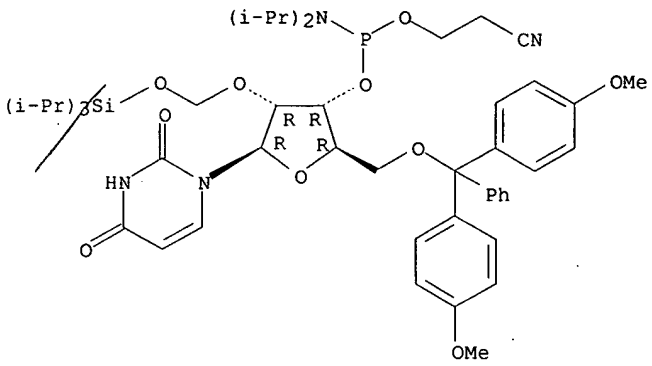
RN 220230-61-5 CAPLUS
CN Guanosine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-N-(2-methyl-1-oxopropyl)-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 220230-62-6 CAPLUS
CN Uridine, 5'-O-[bis(4-methoxyphenyl)phenylmethyl]-2'-O-[[[tris(1-methylethyl)silyl]oxy]methyl]-, 3'-[2-cyanoethyl bis(1-methylethyl)phosphoramidite] (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 17:24:56 ON 29 MAR 2007)

FILE 'REGISTRY' ENTERED AT 17:25:22 ON 29 MAR 2007
L1 STRUCTURE UPLOADED
L2 10 S L1 SSS SAM
L3 136 S L1 SSS FULL

FILE 'CAPLUS' ENTERED AT 17:25:52 ON 29 MAR 2007
L4 19 S L3

10/534,160

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1600txm

PASSWORD:
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SESSION RESUMED IN FILE 'CAPLUS' AT 17:58:51 ON 29 MAR 2007
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FULL ESTIMATED COST	101.54	273.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-14.82	-14.82

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	102.01	274.32

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CA SUBSCRIBER PRICE	-14.82	-14.82

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FILE COVERS 1907 - 29 Mar 2007 VOL 146 ISS 14
FILE LAST UPDATED: 28 Mar 2007 (20070328/ED)

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http://www.cas.org/infopolicy.html

=> s us 20060173173/pn
L5 0 US 20060173173/PN
(US2006173173/PN)

=> s us 2006173173/pn
L6 0 US 2006173173/PN
(US2006173173/PN)

=> s 2006173173/pn
L7 0 2006173173/PN

=> s 20060173173/pn
L8 0 20060173173/PN

=> s us20060173173/pn
L9 0 US20060173173/PN
(US2006173173/PN)

trying to extract res #'s & my app is not coming up (searched DG pub)

McIntosh

10/534,160

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1600txm

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* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 18:02:57 ON 29 MAR 2007
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.40	286.72

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CA SUBSCRIBER PRICE	0.00	-14.82

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            33 WOS
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          1849 RIBONUCLEOSIDES
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=> d bib

L17  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   1989:423920  CAPLUS
DN   111:23920
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Searched for PCT

Searched for my app of keywords - my app not found

McIntosh

10/534,160

TI A process for synthesis of branched trinucleotides containing vicinal 2'-5' and 3'-5'-phosphodiester linkages
IN Hayakawa, Yoshihiro; Noyori, Ryoji; Nobori, Tadahito
PA Nippon Zeon Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 63287795	A	19881124	JP 1987-122200	19870519
PRAI	JP 1987-122200		19870519		

OS MARPAT 111:23920

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L14 IS NOT A RECOGNIZED COMMAND
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For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

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2 PHOSPHORICS
101609 PHOSPHORIC
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=> s l18 and substituent
112577 SUBSTITUENT
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(SUBSTITUENT OR SUBSTITUENTS)
L19 1 L18 AND SUBSTITUENT

=> d bib

L19 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1963:82215 CAPLUS
DN 58:82215
OREF 58:14146c-g
TI Phosphorus-containing poly-p-xylylenes and related polymers
IN Errede, Louis A.
PA Minnesota Mining and Manufacturing Co.
SO 15 pp.
DT Patent
LA English
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 920515		19630306	GB 1959-33679	19591005
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